



Defense Environmental Restoration Program for Formerly Used Defense Sites ORDNANCE AND EXPLOSIVES

Archives Search Report

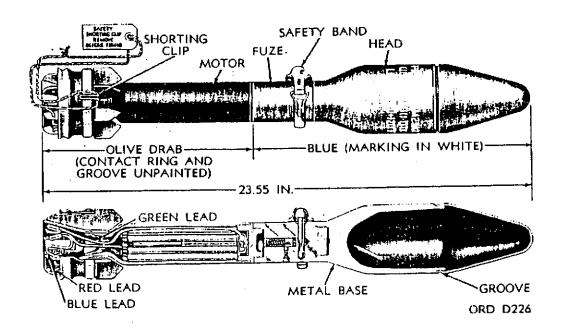
FINDINGS

for the

FORMER KINGSLEY FIRING RANGE ANNEX

Klamath Falls, Illinois
Project Number F100R056901

September 1995



DEFENSE ENVIRONMENTAL RESTORATION PROGRAM for FORMER USED DEFENSE SITES

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ARCHIVES SEARCH REPORT
FOR THE
FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

September 1995

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ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

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ORDNANCE AND EXPLOSIVES PROJECTS ARCHIVES SEARCH REPORT FOR THE

FORMER

KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

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ORDNANCE AND EXPLOSIVES PROJECTS ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

1. INTRODUCTION

a. Subject and Purpose

- (1) This report presents the findings of an historical records search and site inspection for ordnance and explosives (OE) located at the former Kingsley Firing Range Annex, Klamath Falls, Oregon (see Plate 1 for general map location). The investigation was performed under the authority of the Defense Environmental Restoration Program for the Former Used Defense Sites (DERP/FUDS).
- (2) The investigation focused on 206.34 acres of land that was used as Kingsley Firing Range Annex. The range is only a portion of the original 734.26 acres formerly known as United States Marine Corps, Recuperational Hospital or the Marine Barracks (see map L-4). The site was used by the United States Marine Corps, Oregon Army National Guard and the United States Air Force from 1942 until December 1975.
- (3) The purpose of this investigation was to characterize the site for potential OE contamination, to include conventional ammunition and chemical warfare material (CWM). The investigation was conducted by experienced ordnance experts through thorough evaluation of historical records, interviews, and on-site visual inspection results.

b. Scope

- (1) This report presents the site history, site description, real estate ownership information, results of a visual site inspection, confirmation of ordnance presence based on available records, and evaluation of potential ordnance contamination based on site ordnance components and site information.
- (2) For the purpose of this report, OE contamination is considered as being unwanted or abandoned ammunition, and/or components thereof, which contains or

have contained energetic, toxic, or radiological materials, and was manufactured, purchased, stored, used, and/or disposed of by the War Department/Department of Defense.

2. PREVIOUS INVESTIGATIONS

a. 1993 Preliminary Assessment

- (1) A Preliminary Assessment of the former Kingsley Firing Range Annex was authorized under the Defense Environmental Restoration Program, for Formerly Used Defense Sites (DERP FUDS) by the U.S. Army Corps of Engineers, Portland District (site number F100R056900). The Findings and Determination of Eligibility (FDE), dated 23 October 1993, concluded that subject site was found to have been formerly used by the Department of Defense (DOD), and was therefore eligible for the Defense Environmental Restoration Program (see document E-1).
- (2) The INPR recommends an OE investigation at the former Kingsley Firing Range Annex, which is the subject of this report. Table 2-1 represents the overall assessment of the site.

TABLE 2-1 DERP-FUDS PRELIMINARY ASSESSMENT PROJECTS					
Project Number	DERP Category	Present Phase	Comments	Location	
F100R056901	OE	SI	Ordnance or Explosive Contamination		
	HTRW		None Recommen	ded	
	BD/DR		None Recommen	ded	

b. Additional Investigations

There were no other previous investigations discovered during this site assessment team's research of subject location.

3. SITE DESCRIPTION

a. Existing Land Usage

(1) Currently the land is subdivided into smaller areas. The land is not inhabited, however, adjacent land is being subdivided into numerous homesites by a group of investors. To date three homes have been built adjacent to the property. The range proper is fenced with a barbed wire fence which is in fair condition. In the past the range had

been used for limited cattle grazing. It is currently not being utilized for anything except possible wildlife habitat.

(2) Table 3-1 is included to represent the current land usage of the former Kingsley Firing Range Annex facility.

	TABLE 3-1 CURRENT LAND USAGE						
AREA	AREA FORMER PRESENT PRESENT SIZE/ COMMENTS						
	USAGE	OWNER	USAGE	ACRES*			
A	Small Arms	Madan	Grazing/	.47	See plate 3 & 4		
	Impact Berm		Wildlife				
В	Ordnance Burn	Wirth	Grazing/	.58	See plate 3 & 4		
	Disposal Pits		Wildlife				
C	3.5 Inch	Madan	Grazing/	20.41	See plate 3 & 4		
	Rocket Impact	Wirth	Wildlife				
	Area						
Þ	Rocket	Madan	Grazing/	28.01	See plate 3 & 4		
	Ricochet Area	Wirth	Wildlife				
E	Disposal Kick-out	Madan	Grazing/	7.45	See plate 3 & 4		
	Area	Wirth	Wildlife				
F	Damaining Israel	Madan	C	155.03	G1-+- 2 6 4		
F	Remaining Land Area	Madan Wirth	Grazing Wildlife	155.03	See plate 3 & 4		
* Indi	cates Approximated ac	reage Total:	206.34	•	<u> </u>		

b. Climatic Data

- (1) The climate of Klamath County, Oregon is four seasons. Klamath County is located in a semi-arid region having warm summers and cool winters. The city of Klamath Falls is located at an elevation of 4,100 feet and is surrounded by the Coastal and Cascade mountain ranges which tend to collect the rainfall before it reaches the valley. The range is situated at an elevation 500 feet above the city in the foot hills of the Cascade mountains.
- (2) In winter the average temperature in January is 30 degrees Fahrenheit, and the average daily minimum temperature is 21 degrees Fahrenheit. The lowest temperature on record, which occurred in January was -28 degrees Fahrenheit in 1937. Below zero temperatures can be expected one year out of two. In summer the temperature can be expected over 100 Fahrenheit only one year in five. The highest recorded temperature of 105 degrees Fahrenheit occurred in July, 1911. Precipitation averages 16 to 25

inches a year in the foot hills with 30 percent of that snowfall. Approximately 44 percent of the moisture occurs in the winter.

c. Topography

The topography of Klamath County is a large valley where the city if Klamath Falls is located with some surrounding farm area. Through the center and to the west of town is Klamath Lake which provides irrigation for the farm land. Surrounding the valley are the Coastal Range and the Cascade mountains which have a maximum elevation of 6,500 feet. The Kingsley Firing Range Annex itself is located in the foothills north of the city. Although the range is in the foothills it is relatively flat and has rocky terrain with low ground cover including brush and native grasses.

d. Geology and Soils

The Soil Survey of Klamath County, Oregon shows areas of shallow to very deep, excessively drained and well drained soils in mountainous areas. The "Lorella" soils are shallow soils that formed in residual material originating from tuff and basalt. "Rock Outcrop "Nuss" is the second type with rock outcrops and shallow soils that are formed from tuff. The third type of soils encountered is the "Woodcock-Nuss-Royst" which is shallow to deep soils formed from andesite, basalt, tuff, and ash. These three type soils are prevalent on the subject range.

e. Hydrology

The soils on the range area are well drained. The County is located within the Lost River drainage area. The natural drainage patterns have been highly modified by the construction of the Klamath project, a major irrigation and drainage ditch system operated by the Bureau of Reclamation. The surface drainage pattern of the county eventually reaches the major drainage ditches that discharge into the Lost River and eventually flow southeast toward California. The Lost River Diversion Canal diverts water from the lost river to the Klamath system during surplus periods, usually in the winter months, for irrigation in the Lost River and Tule Lake agricultural areas.

f. Natural Resources

- (1) The Oregon Natural Heritage Program lists no animal or plant species in the area as endangered.
- (2) If actions should proceed further regarding the former Kingsley Firing Range Annex, participants should

again contact the Oregon Natural Heritage Program, 1205 NW 25th AVE., Portland, Oregon, 97210.

(3) Klamath County has a diverse economy. Timber products, cattle ranching, irrigation farming, and tourism are the main industries. The range itself has been used for occasionally for cattle grazing.

g. Historical/Cultural Resources

No historical/cultural resources were found to be present on the lands which contained the former Kingsley Firing Range Annex.

TABLE 3-2				
Natura	1, Historical and Cu	ltural Resources		
Resource				
Classification	Type	Comments		
Wildlife	None Known	Coord w/ Oregon		
		Natural Heritage		
		Program		
Vegetation	None Known	Coord w/ Oregon		
		Natural Heritage		
		Program		
Cultural/	None Known	Coord w/Oregon SHPO		
Historical				

4. HISTORICAL ORDNANCE PRESENCE

a. Chronological Site Summary

(1) Located 4 miles north of Klamath Falls, Oregon (see plate 1) the former Kingsley Firing Range Annex project site was part of a larger 734 acre site activated in 1944. The 734 acre site was built as a Marine Barracks and medical facility to be used for military personnel who had contacted tropical diseases. The site was selected because of the mild, dry climate which was very conducive for treating malaria and other tropical diseases (see document H-3). subject 206 acre range was built because the U. S. Marine Corps Commander believed that activities such as marksmanship was an important part of rehabilitation for the soldiers. With the decrease in soldiers contacting these diseases and the successful rehabilitation of those afflicted, the Department of the Navy decided to close the treatment center and on October 28, $\bar{1}947$ the entire site was transferred to the Oregon Technical Institute for use as a training institution for returning veterans (see documents G-1 and G-2).

- (2) Due to the high costs of maintaining this institution the state of Oregon built a new school and then turned the entire site over to the City of Klamath Falls for use as a park. The land reverted back to the United States Government in 1964 when the city could not maintain the area as a park.
- (3) With the exception of the rifle range, the General Services Administration put the property up for sale at that time. It held back the property on which the rifle range is located at the United States Air Force's request (see document G-3 thru G-6). This was accomplished in February 1965 (see document G-7).
- (4) The United States Air Force maintained the Kingsley Firing Range Annex from February 1965 until the active duty Air Force mission was assumed by the Oregon Air National Guard. The three parcels of land which comprised the rifle range were individually conveyed to other organizations or persons. Tract P (44.46 acres) was conveyed to the Department of Interior whom in turn quit claim deeded the land to the city (see document G-5). In 1987 it was deeded back to GSA who sold it to S.K. Madan, P.O. Box 70910 , Pasadena, California, 91107 (see document G-9). Tract Q (1.88 acres) shows up as a county road (see document G-4). Current maps indicate this acreage is now a county road. Tract 600 (160 acres) which was leased land was returned to the original owner, Mr. Bruce Wirth, 2737 Old Fort Road, Klamath Falls, Oregon, 97603 (see plate 4).

b. Review of Ordnance Related Records

- (1) Research efforts began with a review of all reports, articles, historical documents, and reference materials gathered during the archival records search. During this review an effort was made to focus on areas of potential OE contamination as described in the OE project summary sheet, as well as any additional areas which may have been identified during research concerning this former facility.
- (2) Aerial photographs were located which clearly show the Kingsley Firing Range Annex (see document K-1). The light area in the upper left of the outlined area shows the rifle firing area. In the upper center of the photo the hospital complex itself can be seen.
- (3) A request for bid on the old Oregon Technical Institute location shows the range proper and identifies it was not for sale (see document G-3).

- (4) A 1946 contractors map drawn by R. H. McCormick, Major, U. S. Marine Corps is an excellent depiction of the complete site at the time of closure. The proposed addition identified on the map to the range was never made (document L-2).
- (5) The site investigation team was unable to locate any documents which specified any types of ordnance used on the range. The assumption must be made that standard .30 caliber and .45 caliber weapons were fired on the range because this was the standard equipage for the time period.
- (6) At the time of U. S. Air Force ownership, the mission at Kingsley Field was strictly air defense. F-106 interceptor aircraft were used exclusively for the mission. This type aircraft carried two AIM 4F and AIM 4G missiles, along with one AIR 2A rocket for its offensive weaponry.
- (7) Because clear range documentation was not located, range firing fans were abstracted from Army Regulations in order to show a probable area for contamination (see document D-4).

c. Interviews With Site-Related Personnel

- (1) Personal interviews were conducted with officials, local citizens and land owners to help in the investigation for the presence of contamination (OE) in this area, and to gain further knowledge into the former Kingsley Firing Range Annex facility.
- (2) Mrs. Maxine Wirth stated she was the current land owner of the 160 acre tract that the U.S. Air Force leased for the purpose of a firing range. Mrs. Wirth stated that her dad had owned the entire area known as the Marine Barracks until the government condemned the land and acquired it for the medical facility. The land was put up for sale by bid but, the selling price was more than they could offer. Mrs. Wirth was very cooperative in letting the SI team have access through her gate which led directly to the backside of the range. This area known as Tract 600 (see plate 4) was the area where 3.5 Inch Rocket debris and also the burn/detonation pits were found. Mrs. Wirth stated she had no knowledge of any ordnance or explosives hazards or debris in the area (see interview I-1).
- (3) Mr. Bruce Durant owns the land on the northwest edge of the firing range. Mr. Durant offered the SI team access to the area through his private gate making it very convenient for the SI team to investigate the area. Mr. Durant, a real estate agent stated that as part of his job he had been all over the range. Being quite familiar with the area Mr. Durant helped the SI team locate the boundaries

of the former range. He stated tract Q (see plate 4) which leads to his home was a county road. Tract P is the area which is owned by S. K. Madan. As a real estate agent he thought this tract would soon be put up for sale. When asked of any knowledge of hazards he said he knew of none. He stated he never saw any debris from ordnance or explosives. Mr. Durant's home is approximately 3/4 of a mile from where the SI team saw actual debris from ordnance and explosives (see interview I-2).

- (4) Sergeant Flocchini of the Klamath Falls Police Department and a 36 year resident of Klamath Falls was also knowledgeable of the area. Mr. Flocchini said he had fired on the range about 25 years ago as a police officer and also a member of the Oregon National Guard. He had been there half a dozen times. He said the only training accomplished on the range was small arms firing. Mr. Flocchini was not aware of any other ordnance items used on the range. Mr. Flocchini also stated that there had never been any incidents reported to the police involving ordnance or explosives (see interview I-3).
- (5) Chief Master Sergeant John Wohlwend of the Oregon Air National Guard was interviewed for the purpose of gaining insight of the Guard's activities on the range. CMSGT Wohlwend stated he came to the area in 1971 and that he had never been on the range and that the Oregon Air National Guard had never used it. As Chief of Security Police he was aware that the range had been used by the active Air Force years prior for what he assumed disposal operations and also for marksmanship training. Mr. Wohlwend thought the disposal operations were for small arms. He did not know of any incidents occurring from military use of the firing range or any ordnance items found or buried on the range (see interview I-4).
- about Oregon Army National Guard's use of the range. Mr. Hertz had been with the guard for over thirty years. He stated he remembered being on the range numerous times. He recalled that the great majority of the times the range was used for only small arms practice. He did know of several times when the 3.5 inch practice rockets were used in small quantities. He did not remember the exact quantities but it was not great quantities. Mr. Hertz said the firing point for the rockets was north of the water tank and on the first small arms firing berm. The approximate firing point as described by Mr. Hertz is pointed out in plate 2. Mr. Hertz stated at times they brought out old vehicles to be used as targets in this area. He was careful to also state they always removed the vehicles after use

5. SITE ELIGIBILITY

a. Confirmed Formerly Used Defense Sites

- (1) Former land usage and ownership of Kingsley Firing Range Annex by the Department of Defense has been previously confirmed for this entire site. This approximate 206 acres of land was used as a site for marksmanship training.
- (2) All information obtained during the archives search, site visit, and personal interviews has verified that this former Kingsley Firing Range Annex location is to be considered a confirmed site under the FUDS program.

b. Potential Formerly Used Defense Sites

An additional area identified as Area F was discovered when the Army regulation size firing fan was overlaid on the Kingsley Firing Range Annex map (see plate 3). While not originally part of the site, the rocket firing fan clearly indicates usage. The area is summarized in Table 5-1 and is eligible as a potential Formerly Used Defense Site. All other acreage pertaining to Kingsley Firing Range Annex appears to have been accurately covered in the Findings and Determination of Eligibility, dated 23 October 1993 (see document E-1).

TABLE 5-1				
POTENTIAL FORMERLY USED DEFENSE SITES LAND USAGE				
AREA	FORMER	PRESENT	PRESENT	SIZE/
	USAGE	OWNER	USAGE	ACRES*
G	Ricochet Area	Stewart	Wildlife/	6.45
			Residential	

6. VISUAL SITE INSPECTION

a. General Procedures and Safety

- (1) During the period of 5-9 August 1995, members of the Site Inspection (SI) team traveled to the former Kingsley Firing Range Annex facility, Klamath Falls, Oregon. The primary task of the site inspection team was to assess subject facility for OE presence and potential. The site inspection was limited to non-intrusive methods, i.e., subsurface sampling was neither authorized nor performed at this location.
- (2) Real Estate rights-of-entry were coordinated and obtained by the Portland District.
- (3) A site safety plan was developed and utilized by the site inspection team to assure safety from injury to

all personnel during the site inspection of this facility. A briefing was conducted prior to the inspection, at which time it was stressed that OE should only be handled by military EOD personnel. During this on-site inspection, the assessment team maintained site safety at all times.

(4) Prior to the site visit, a thorough review of all available reports, historical documents, texts, and technical ordnance reference materials gathered during the historical records search portion of the ASR was made, to ensure awareness of potential ordnance types and hazards.

b. Area A - Small Arms Impact Berm

- (1) This area is approximately 200 feet long and 20 feet high at the southeast end of tract P. The berm was cut into a slight hill. Firing positions themselves were elevated and at approximately 200 meters, 300 meters and 500 meters to the face of the target berm (see plate 3, document E-2, and photograph K-1).
- (2) A portion of this area is within Area C, however, it is considered a separate area in this report due to the fact that a 3.5 inch rocket on a fence post was discovered on the north end of the berm. This rocket had an identifiable lot number and fuze nomenclature M-405 which is the practice version of the 3.5 inch rocket (see plate 3, plate 5, photographs J-11, J-12 and J-13). No other OE was observed within this area.

c. Area B - Ordnance Burn/Disposal Pits

- (1) The on-site inspection team proceeded to perform a visual inspection of the area in and adjacent to the burn pits. This area is located on the northwest corner of Tract 600 and in a straight line from the firing berm in Area A. Directly to the south of the Area B is a fire trail. Although this area is within the rocket impact area it is being addressed as a separate area since there may be ordnance buried.
- (2) In the pits there was evidence of small arms, ejection cartridges for aircraft pylons, and an empty rear casing of a practice bomb. No live ordnance was observed in either pit (see plate 3, plate 5 and photographs J-3 thru J-6).

d. Area C - 3.5 Inch Rocket Impact Area

(1) The firing fan and ricochet area adjacent to the firing fan commences at the firing point on the most northwesterly firing berm. This area extends on to the southwest end and south center of Tract P and also into the

neighboring Tract 600. The area is flat, rocky and moderately grassy (see plate 3)

(2) Scattered debris from 3.5 inch rockets started approximately 400 yards downrange and well within the firing fan (see plate 3). While there were no heavy concentrations, numerous tail rings, fins and several warhead sections from practice 3.5 inch rockets were observed throughout the area (see photographs J-7 thru J-10 and plate 5).

e. Area D - Rocket Ricochet Area

The rocket ricochet area was determined by Army Regulation 385-63 (see reference D-4). This area surrounds the dispersion and line of fire area shown on plate 2. Because of its close proximity to the line of fire it was scoured closely for OE contamination. No debris was found (see photograph J-13 and plate 5).

f. Area E - Disposal/Kickout Area

- (1) This area extends out around Area B, the ordnance burn/disposal pits, approximately 300 feet. Much of this area also extends into previously mentioned Area C and Area D. Because there is no documentation stating what was disposed of in the area an assumption must be made that there was possible disposal by detonation in this area. This leads to the possibility of kickouts of munitions items.
- (2) The mission at the time of ownership by the U. S. Air Force at Kingsley airfield was air defense. The type of aircraft flown by Kingsley were F-106 interceptors which carried missiles only. These aircraft had no guns and the only explosive items on them besides the missiles were ejection cartridges and explosive components for the ejection seat system.
- (3) The missiles would not have been disposed of on the range because they are routinely shipped back to depot for refurbishing. Likewise, most of the ejection seat charges are returned as accountable items to depot. This leaves ejection cartridges, small arms ammunition and possibly small charges from the ejection seat system possibly would have been disposed of in Area B.

g. Area F - Remaining Grounds

Immediately on entering the range there are three small buildings. One was setup as an office and possibly a small messhall. The other two are about 8' X 8' and were

obviously used as magazines. The land itself is quite level with berms running parallel on each side of the firing positions. Inspection of the remaining land to the east revealed there was no evidence of any ordnance or explosives. Furthermore there was no evidence of any small arms projectiles (see plate 2 and 3).

h. Area G - Ricochet Area (Potential FUDS)

This small area falls within the 3.5 inch rocket ricochet area but extends outside the site boundary (see plate 3). Because this area is outside the boundary of the range it must be considered separate. This area is separated from the range with a barbed wire fence. There is a trail which could be accessible with a four wheel drive vehicle in this area. While inspecting the range the entire boundary was walked and inspected. No OE was observed in this area.

7. EVALUATION OF ORDNANCE HAZARDS

a. General Procedures

- (1) All lands known to have comprised the former Kingly Firing Range Annex were evaluated to determine confirmed, potential, or uncontaminated ordnance presence. Confirmed ordnance contamination is based on verifiable historical evidence or direct witness of ordnance items since site closure. Verifiable historical records evidence consists of ordnance items located on site and documented by the local bomb squad, Army Explosive Ordnance Disposal Team, newspaper articles, correspondence, current findings, etc. Direct witness of ordnance items consists of the inspection team directly locating ordnance items by visual inspection. Additional field data is not needed to identify a confirmed subset.
- (2) Potential ordnance contamination is based on a lack of confirmed ordnance. Potential ordnance contamination is inferred from records or indirect witness. Inference from historical records would include common practice in production, storage, usage, or disposal, at that time, which could have allowed present day ordnance contamination. Potential ordnance contamination could also be based on indirect witness or from present day site features. Additional field data is needed to confirm potential ordnance subsites.
- (3) Uncontaminated ordnance subsites are based on a lack of confirmed or potential ordnance evidence. All evidence found in historical records and present day site inspections do not indicate confirmed or potential ordnance contamination. There is no reasonable evidence, either direct or inferred, to suggest present day ordnance

contamination. Additional field data is not needed to assess uncontaminated ordnance areas.

b. Area A - Small Arms Impact Berm

- (1) There was no evidence of ordnance or explosive contamination at this area with the exception of a 3.5 inch rocket (see photograph J-11). It is quite obvious a person found this in another area and then placed it on a perimeter fence post for the lack of nothing better to do.
- (2) The front and back of the target area were thoroughly inspected for OE debris. None was found.
- (3) In relation to its actual use as a small arms target area the area is uncontaminated. However, this area should be considered to be **potential** for OE contamination due to its location within the rocket firing range (Areas C and D).

c. Area B - Ordnance Burn/Detonation Pits

- (1) This area, which consists of 2 burn pits approximately 200' apart was found to have ordnance related debris. One area was situated on flat ground with no pit or berm. It had ordnance residue in the form of burned small arms casings and ammunition clips (see photographs J-3 through J-7).
- (2) The second area had a 6' berm shaped as a horseshoe around the area. Within the berm was burned and melted ejection cartridges, small arms casings, and the empty base of an old style bomb. There was not enough left to make a positive identification, however it has been theorized that at one time the Kingsley AFB EOD Team may have used the bomb for shape charge training. In neither pit was any live ordnance found. This area should be considered confirmed.
- (3) This would be the only area where there is some suspicion of buried ordnance, although there is no evidence to substantiate this (see plate 3).

d. Area C - 3.5 Inch Rocket Impact Area

(1) Scattered debris from 3.5 inch rockets was observed throughout the target impact area. While there were no heavy concentrations, numerous tail rings, fins and several warhead sections from practice 3.5 inch rockets were observed. One warhead and rocket motor assembly were discovered stuck on a steel fence post. Lot and model number were readable including the word "dummy" on the inert M405 fuze.

(2) Because the worst case scenario must be assumed all types of 3.5 inch rockets must be considered to be in the area. This means that HE, WP, and practice rockets possibly contaminate Area C. There is no documentation stating specifically what type was fired on the range. Mr. Kenny Hertz, who has the most knowledge of the range stated, only practice rockets were fired. No other witnesses were available to confirm or deny this. This area must be considered **confirmed** for OE contamination (see plate 3, 5 and photograph J-7 thru J-10).

e. Area D - Rocket Ricochet Area

The presence of confirmed ordnance in the adjoining area and the fact that this is considered a ricochet area deem this area as likely to have OE debris (see plate 3, photograph J-1 and J-13). This area must be considered potential for OE contamination.

f. Area E - Disposal Kick-out Area

This area surrounds the ordnance burn/disposal pits. Kickouts are always a possibility if any disposal by detonation occurred in these pits. The size of the area is held to a minimum because of the type of munitions which would have been disposed of by the U. S. Air Force personnel. The type of mission and the type of aircraft used to complete the mission for Kingsley Airfield would have generated very few munitions or explosive components. More than likely only ejection cartridges and small arms would have been generated for disposal. It must be remembered that this area encroaches into Area C and Area D so the acreage may be misleading. This area is Potential for OE contamination (see plate 3).

g. Area F - Remaining Land

There is no documentation to indicate any use of ordnance on this land. There was no direct witness by this assessment team of any ordnance and explosive contamination in this area. A thorough examination of the remaining lands indicated no ordnance or ordnance debris. Interviews with adjacent landowners and the landowner of Tract 600 all conclusively stated they knew of no OE contamination. This area should also be considered to be uncontaminated (see plate 3, photographs J-4 and J-13).

h. Area G - Ricochet Fan (Potential FUDS)

This area does not fall within the original range boundary. This area is within the prescribed regulation firing fan for 3.5 inch rockets. Being within the firing fan this area is considered **potential** for OE contamination as in Area D (see plate 3)

8. SITE ORDNANCE TECHNICAL DATA

a. End Item Technical Data

Table 8-1 has been developed for to establish a list of potential ordnance items and their explosive/chemical fillers that could exist an surface and sub-surface levels within the former site. It is based upon available documentation, information gathered during personal interviews and personal observations.

TABLE 8-1 SUMMARY OF SITE-SPECIFIC ORDNANCE				
ITEM	MODEL/TYPE	FILLER/WEIGHT	FUZE/TYPE/MODEL	
Rocket, 3.5 inch	M-30	White Phosphorus 2.23 lb.	M-404	
•	M-28A2	Comp B 1.88 lb.	M-404	
	M29A2*	Practice (Inert)	M-405 (Inert)	
.30 Cal. Cartridge	M-2*	Lead Antimony, 50 grams Single or doublebase powder		
.45 Cal Cartridge	M1911*	Lead Antimony, 5 grams Single or doublebase powder		
ARD 863-1 Cartridge, ejection	M169*	Doublebase powder, 2.10 grams		
*Confirmed on site				

b. Chemical Data of Ordnance Fillers

Table 8-2 has been developed to provide information on some of those items listed on Table 8-1.

TABLE 8-2 CHEMICAL DATA OF ORDNANCE FILLERS				
Filler/Weight	Synonym(s)	Chemical Formula		
Doublebase Powder, 5-50 gram	Ballistite, Guncotton, Pyroxylin	[C ₆ H ₈ O ₅ (NO ₂)] _{N,} CH ₂ NO ₃ CHNO ₃ CH ₂ NO _{3,} (C ₆ H ₅) ₂ NH		
Smoke, HC, 19oz	Hexachlorethane-Zinc	$Z_n+C_2CL_6$		
Smoke, WP, 15oz	White Phosphorus	P		
Detonator	Lead Azide	$P_b(N_3)_2$		
Detonator/Booster (RDX)	Cyclotrimethylenetrinitrimine	C ₃ H ₆ N ₃ (NO ₂) ₃		
Comp B	Trimethylene, Trinitramine Cyclonite	N(NCH ₂) ₃		

9. OTHER ENVIRONMENTAL HAZARDS

No potential projects were noted that were not previously addressed by the Portland District.

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX A

REFERENCE SOURCES

APPENDIX A					
REFERENCE SOURCES					
Organization	Name	Telephone	Nature of Support		
Dept. of Defense					
National Personnel Records Center, 9700 Page Ave St Louis, Missouri 63132	Wilson Sullivan	(314)538-4085	No Information		
Pentagon Library Room 1A518 Washington, DC 20310	Staff	(703) 693-6543	References		
Defense Library on Disc Pentagon, Rm 1A518, Washington DC, 20310-6080	Computer Search	(703) 697-4658	No Information		
Defense Logistics Studies Ex. US Army Logistics Mgt. College Ft. Lee, VA	Computer Search	(202) 734-4007	No Information		
Defense Technical Info Center Cameron Station, VA, 22304-6145	Computer Search	(202) 274-7633	No Information		
Center of Military History, 1099 14ST. NW, Washington DC DC, 20536	CEHO/SR	(202)761-5416	See Appendix B, Section II		
Air Force Air Force Historical Agency 600 Chennault Circle, Maxwell	Thomas Dean	(205) 953-6884	Recieved Microfilm		
AFB, AL 36112-6424 Air Force Historical Society 600 Chennault Circle, Maxwell AFB, AL 36112-6424	Sergeant Barry Spink	(205) 953-5046	No Information		
Air Force Real Estate 105 Brookley Ave, Suite 100 Bolling AFB, DC 20332	Dave McKinney	(202) 767-6233	No Information		

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ganization	Name	Telephone	Nature of Support
	FEDERAL	GOVERNMENT	
Center for Air Force History 170 Luke Ave, Reference Div. Bolling AFB, DC 20332	Bill Heindahl	(202)767-0412	No Information
U.S. Air Force Library Air University Library Maxwell AFB, AL, 36112	Janet Seymour	(334)596-2291	No Information
Army US Army Cheem & Biological Defense Command, Aberdeen Proving Ground, MD. 21010-5423	Kathleen Ciolfi	(410)679-4430	No Evidence of Chemical Use at This Site
USACE, North Pacific Division ATTN: CENPD-PL-ER, PO Box 2870 Portland, OR 97208	William Willingh	(503) 326-5609	References
USACE, Office of History, 7701 Telegraph Road Alexandria, VA, 22310-3865	CEHO-SR Dr.Martin Gordon	(703) 355-3558	Real Estate Documents
USACE, Portland District 333 SW 1st St Portland, OR, 97208-2946	Michael Gross John Todd	(503)326-6489 6491	Real Estate Maps, Documents Site Maps
USACE, Portland District 333 SW 1st St Portland, OR, 97208-2946	Miles Takayesu	(800) 326-6046	Reference for Real Estate Info.
Rock Island Museum, Rock Island, Arsenal, Rock Island IL, 61204	Chris Leinicke	(309)794-3518	Technical Manuals
USACE, Seattle District Real Estate, 4735 E Marginal . Way South, Seattle, WA, 98134	Cindy Luciano Wayne Kieffer	(206)764-3745	Documents

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	FEDERAL	GOVERNMENT	
Army 27th ORD DET EOD FT Lewis, WA, 98433-5482	Sergeant Frst Class Loughlin	(206) 967-5507	No Responses on Record to Site
AMCCOM Historical Office Bldg. 110, Rock Island Arsenal Rock Island, IL, 61204	Dr. Herb Lafore	(309)782-1276	No Information
Historical Accident Data Base USATCES, SMCAC-EM Savanna IL 61074-9639	Computer Search	(815)273-8730	No Information
AMCCOM Historical Office Bldg. 110, Rock Island Arsenal Rock Island, IL, 61204	Dr. Herb Lafore	(309)782-1276	No Information
Marine Corps Marine Corps Historical Ctr., Bldg. 58, Washington Naval Yar Washington, DC 20374	CEHO-SR	(202) 433-3483	See Appendix B, Section II
Navy Navy Historical Center Bldg 57, Washington Naval Yard Washington, DC 20374	CEHO-SR	(202) 433-3171	See Appendix B, Section II
Federal Agencies National Climatic Data Center Federal Bldg, Asheville, NC 28801	Yolanda Goosch	(704)271-4272	Climatic Data
Dept of Interior, Geological Survey, Reston, VA 22092	Dave Keys	(703) 648-5956	No Information

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rganization	Name	Telephone	Nature of Support
	FEDERAL	GOVERNMENT	
Federal Agencies			
Consolidated Farm Service 2455 Patterson RD. Suite 3 Klamath Falls, OR 97603	Randy Oates	(503)883-6924	No Information
Council on America's Past 518 Why Worry Lane Phoenix, AZ 85021	Heliogram Pub	(800) 396-4693	No Information
Oregon Bureau of Land Mgt. 1515 SW 5th St, PO Box2965 Portland, OR 97208	Linda Sullivan	(202) 767-6233	Documents
USDA, Aerial Photography Office PO BX 30010, Salt Lake City, UT	Sherrie Holyoak	(801) 975-3503	Aerial Photos after 1956
USGS. Distribution Branch BX 25286, Bldg 810, Federal Ctr Denver, CO80225	Carol Lark	(303)236-7476	Topographical Maps
USDA, Natural Resources Div 2455 Patterson ST. Suite 3 Klamath Falls, OR 97603	Gail Clark	(503)883-6932	Aerial Photos recieved
Center of Military History, 1099 14ST. NW, Washington DC DC, 20536	CEHO/SR	(202)761-5416	See Appendix B, Section II
General Services Administration National Archives II Military Reference Branch 8601 Adelphi Rd., College Park, MD, 2074	Staff	(202)501-5455	See Appendix B, Section II

APPENDIX A REFERENCE SOURCES

Organization	Name	Telephone	Nature of Support
	FEDERAL	GOVERNMENT	
FEDERAL AGENCIES		(001) 610 5040	
National Archives II Cartographic and Architectural Branch 8601 Adelphi Rd., College Park, MD, 20749	CEHO-SR Contractor	(301)713-7040	See Appendix B, Section II
National Archives, Suitland Br. Civil and Military 4205 Suitland Rd., Suitland MD.,	CEHO-SR Contractor	(301)763-7410	See Appendix B, Section II
National Archives and Records Center, (Old Military) Pennsylvania Ave & 7th, Washington, DC, 20408	CEHO-SR Contractor	(202)501-5390	See Appendix B, Section II
National Archives and Records Center, (Modern Military Pennsylvania Ave & 7th, Washington, DC, 20408	CEHO-SR Contractor	(202)501-5385	See Appendix B, Section II
National Archives I, (Navy) Pennsylvania Ave & 7th, Washington DC, 20408	CEHO-SR Contractor	(202)501-5671	See Appendix B, Section II
National Archives II Motion Picture, Sound & Video Branch 8601 Adelphi Rd., College Park, MD, 2074	CEHO-SR Contractor	(301)713-7060	See Appendix B, Section II
National Archives II Still Picture Branch 8601 Adelphi Rd., College Park, MD, 2074	CEHO-SR Contractor	(301)713-6660	See Appendix B, Section II

REFERENCE SOURCES

FEDERAL GOVERNMENT

l		FEDERAL (SOVERNMENT	
l	Federal Government			
l	Library of Congress	CEHO-S	(202)707-5522	See Appendix B, Section II
l	Washington DC, 20536	Contractor		
l		STATE GO	OVERNMENT	
l	State Government			
İ	Air National Guard	Chief Master	(503)885-6350	Interview I-4
l	Kingsley Field	Sergeant		
١	Klamath Falls, OR 97603	Wholwend		
l	Army National Guard	Sergeant Pence	(503)884-6590	No Information
l	2501 Shasta Way	bergeane rence	(303)004 0330	NO INIOIMACION
l	Klamath Falls, OR 97603			
l	Manual Edday of 5,000			
l	Oregon Natural Heritage Program	Connie Levesque	(503) 229-5078	Referrals
l	PO BX 59, Portland OR, 97207	-		
l				
l	Oregon Dept of Fish & Wildlife	Martin Nugent	(503)229-5454	Wildlife diversity plan
l	PO BX 59, Portland OR, 97207			
l	Oregon Institute of Technology	Karen Chase	(503) 885-1770	No Information
ļ	3201 Campus Drive	Kalen Chase	(303)003 1770	NO INTOTHIACTOR
۱	Klamath Falls, Oregon, 97603			
١	Alamach Talib, Ologon, 5,000			
l	Oregon Department Environmental	Olivia Jonason	(503)229-6854	Environmental Plan
l	Quality, 811 SW 6th St.			
l	Portland Oregon, 97310			
ł	Southern Oregon State College	Debra Hollins	(503)552-6850	No Information
١	Library, 1250 Siskiyo, Blvd			
١	Ashland, OR, 97520-5076			

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Organization	Name	Telephone	Nature of Support
State Government Oregon State Library 250 Winter ST, Salem OR, 97310	Alden Moberg	(503) 378-4243	State Archives, Site Information
Oregon State University William Jasper Kerr Library Corvallis, Or 97331	John Donel	(503)737-6154	No Information
SHPO State Parks & Rec. Dept. 1115 Commercial St. NE Salem, OR 97310	Elizabeth Potter	(503)378-5001	No Information
Southern Oregon State College Library, 1250 Siskiyo, Blvd Ashland, OR, 97520-5076	Harold Otness	(503) 552-6839	Referrals
Southern Oregon State College Library, 1250 Siskiyo, Blvd Ashland, OR, 97520-5076	Debra Hollins	(503) 552-6850	No Information
City City of Klamath Falls Planning Dept. 226 S 5th ST Klamath Falls, OR, 97601	Joe Riker	(503)883-5361	Interview
Klamath County Clerk 226 S 5th ST Klamath Falls, OR, 97601	Lynette Freitag	(503)883-5134	Records, maps, deeds

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Organization	Name	Telephone	Nature of Support
	CITY G	OVERNMENT	
City Klamath County Library 125 S 3rd ST., Klamath Falls, OR, 97601	Louise Clinton	(503)882-8894	Newspaper article
Klamath County Sheriff 3201 Vandenburg RD, Klamath Falls, OR 97603	Deputy Michael Griffin	(503)883-5130	No Incidents on Site
Klamath Falls Police Department 425 Walnut Ave Klamath Falls, OR 97603	Sergeant Flocchini	(503)883-5336	Interview I-3
Oregon Institute of Technology Klamath Falls, OR 97603	Karen Chase	(503)885-1770	No Information
Private			
Knight-Ridder Information Inc. 2440 El Camino Real, Mountain View, CA 94040	Computer Search	(800) 334-2564	No Information
Northern Illinois Library Sys. 4034 East State St. Rockford, IL, 61108	Computer Search	(815)220-0330	No Information
Online Computer Library Center 6565 Frantz Road Dublin, OH 43017-3395	Computer Search	(800)848-5878	No Information
(STILAS) Siris Corporation 689 Discovery Drive Huntsville, AL, 35806	Computer Search	(205)922-9820	No Information

APPENDIX A REFERENCE SOURCES

Organization	Name	Telephone	Nature of Support
NON-GOVERNMENT			
Bruce Durant Old Fort Road Klamath Falls, OR, 97601	Adjacent Land	(503)884-1717	Interview I-2
Maxine Wirth PO Box 477, 2737 Old Fort Road Klamath Falls, OR, 97601	Land Owner	(503)882-3260	Interview I-1
Mrs. Allen Laird 3475 Old Fort Road Klamath Falls, OR, 97601	Adjacent Land	(503)882-1770	Referral
Mr. Kenny Hertz Klamath Falls, OR, 97601	U.S. Army National Guard Retired	(503)882-2421	Interview I-5

ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

APPENDIX B

REFERENCE AND ABSTRACTS

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Bibliography

SECTION II

National Capitol Register Archives Search

Part A: Positive Findings (None Found)

Part B: Negative Findings

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Bibliography

- B-1 Soil Survey of Klamath County Oregon, United States Department of Agriculture, dated 1976
- B-2 Ammunition General, TM 9-1900, Department of Army, dated June 1956, (document D-1)
- B-3 Small Arms Ammunition, TM-9-1990, Department of the Army, dated 23 May 1942, (document D-2 and D-3)
- B-4 DERP/FUDS Inventory Project Report, Kingsley Firing Range Annex, Klamath Falls, Oregon, Site, U. S. Army Corps of Engineers, Portland District, dated 23 October 1993, (document E-1)
- B-5 Aerial Map, U. S. Geological Survey, USDA, Natural Resources Conservation Service, 2455 Patterson St., Suite 3, Klamath Falls, Oregon, 97603, (photograph K-1)
- B-6 Local Climatological Data, National Climatic Data Center, Federal Building, 37 Battery Park Avenue, Asheville, North Carolina, 28801-2733, dated 1993,
- B-7 Oregon Natural Heritage Program, The Nature Conservatory PO Box 59, Portland, Oregon, 97210 4 April 1995
- B-8 Document, Subject: Invitation for Bid, General Services Administration, Auburn, Washington, 15 December 1964, (document F-1)
- B-9 Letter Subject: Quitclaim Deed, from Associate General Counsel for Real Property Disposal, 1 August 1947, (document G-1)
- B-10 Letter Subject: Surplus Real Property, Navy Department Washington 25, D. C., Date Unknown, (document G-2)

- B-11 Memorandum, Subject: Acquisition, Transfer & Easement, U. S. Air Force, Kingsley Field, 24 September 1964, (document G-3)
- B-12 Memorandum, Subject: Transfer of easement, Corps of Engineers, Seattle District, 8 February 1965, (document G-4)
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- B-14 Deed, Transfer from State of Oregon To United States of America, State of Oregon, Board of Education 1 December 1965, (document G-8)
- B-15 Army Data Sheets for Cartridges, Cartridge Actuated Devices and Propellant Actuated Devices,
 TM 43-0001-39, dated December 1991, (document D-5)
- B-16 Letter of Excess Land Transfer, Director, Regional Data & Financial Management, 15 June 1965, (document G-5)
- B-17 Fact Sheet, Kingsley Firing Range Annex, Jerry R. Gardenhire, Corps of Engineers, Portland District, date unknown, (document E-2)
- B-18 Article from Klamath County News, "Marine Barracks declared surplus", 20 April 1946 (document H-1)
- B-19 Article from Klamath County News, "Marine Post to close", date unknown, (document H-2)
- B-20 Article from Periodical, <u>Journal of the Council on America's Military Past</u>, <u>Volume XVII</u>, <u>Number 1</u>, "Klamath Falls Marine Barracks", January 1990, (document H-3)
- B-21 Assessor's Tax Document, 7 August 1995, Klamath County, (document G-9)
- B-22 Aerial photograph showing the former Kingsley Firing Range, 1970, (Reference K-1)
- B-23 Site Location Map, Corps of Engineers, 1 June 1965 (document L-3)

- B-24 Assessor's Map, Tract P, Klamath County, 1995, (document L-1)
- B-25 Engineering Map, Marine Barracks, Major R. S. Mc Cormick, U. S. Marine Corps, 9 September 1946, (document L-2)
- B-26 Policies and Procedures for Firing Ammunition for Training, Target Practice and Combat, Army Regulation, 385-63, Department of the Army, 15 November 1983, (document D-4)

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Highway Construction, 1940-June 1943;

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Program, 1940-1055;

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Entry 76: Exchange Cases, 1922-1946;

Entry 79: Exchange, Purchase and Donation Cases, 1946-1951;

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NARA Motion Picture, Sound & Video Branch, College Park, MD;

All Records:

Nothing Found

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Entry 31: Geographic Series, 1938-1946;

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Entry 32: Geographic Series (Security Classified), 1938-1946;

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RG 156, Records of the Office of the Chief of Ordnance;

Entry 687: Disaster File Comprising Reports of Investigations with

Photographs & Correspondence of the Effects of Accidents at Ordnance

Facilities, 1941-1949;

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RG 156. Records of the Office of the Chief of Ordnance;

Entry 949: Records Relating to Expansion of Production Facilities, 1942-

1944:

Nothing Found

RG 156, Records of the Office of the Chief of Ordnance; Entry 798: Plans & Drawings of Facilities, 1922-1942; Nothing Found

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RG 156, Records of the Office of the Chief of Ordnance; Entry 794: Records Relating to Facilities Expansion, 1940-1948; Nothing Found

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RG 156, Records of the Office of the Chief of Ordnance; Entry 41: Correspondence Relating to Inspections, 1927-1940; Nothing Found

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RG 156, Records of the Office of the Chief of Ordnance; Entry 39: Confidential Correspondence, 1917-1940; Nothing Found

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RG 168, Records of the National Guard Bureau;

Entry 12C: Unclassified Decimal Correspondence, 1922-1954; Entry 12D: Classified Decimal Correspondence, 1922-1954;

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Entry 1: Central Correspondence, 1918-1942;

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Entry 18: Annual Inspection Reports, 1928-1939;

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Entry 49: Contract Cards, 1917-1926;

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Accession 4529: Construction and Procurement Subject File, 1945; Accession 4444: Construction and Procurement Subject File, 1946; Accession 5595: Construction and Procurement Subject File, 1947;

Nothing Found

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RG 77, Records of the Office of the Chief of Engineers; Entry 58A-1076: Real Estate Files: Nothing Found

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RG 77, Records of the Office of the Chief of Engineers; Entry 394: Historical Record of Buildings, Abandoned Army Posts, 1918-1942:

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Accession: 61A-1547; Accession: 63A-1551: Accession: 64A-2139; Accession: 66A-3184; Nothing Found

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NARA Suitland, MD

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NARA Suitland, MD

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NARA Suitland, MD

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RG 160, Records of Headquarters Army Service Forces; Entry 27, Mobilization Div., Command Installations Branch, Correspondence File, 1942-46; Nothing Found

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NARA Washington, DC;

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NARA Washington, DC

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National Geographic Society All Records (Photographic); Nothing Found Navy Historical Yards, Navy Department Library; All Collections; Nothing Found

Navy Historical Yards, Operational Archives; All Records; Nothing Found

Smithsonian National Air and Space Museum; All Records; Nothing Found

U.S. Army Corps of Engineers, Office of History All Records; Nothing Found

ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

APPENDIX C

GLOSSARY

APPENDIX C

Glossary

AR Army Regulation BD/DR Building Demolition/Debris Removal U.S. Army Corps of Engineers, Huntsville Division CEHEND CENPP U.S. Army Corps of Engineers, Portland District U.S. Army Corps of Engineers, Rock Island District CENCR Comprehensive Environmental Response, Compensation CEREAL and Liability Act CON/HTRW Containerized Hazardous, Toxic and Radiological Waste Department of Army DΑ Defense Environmental Restoration Program DERP DLA Defense Logistics Agency Department of Defense DOD Department of Interior DOI Engineering Evaluation Cost Analysis EE/CA Expanded Site Inspection ESI EOD Explosive Ordnance Disposal Environmental Protection Agency EPA Findings and Determination of Eligibility FDE Former Used Defense Site(s) FUDS Hazardous, Toxic and Radiological Waste HTRW Inventory Project Report INPR IRA Interim Remedial Action National Archives Records Administration NARA Ordnance and Explosives OΕ PΑ Preliminary Assessment Project Number P.N. Remedial Action RAE Risk Assessment Code ARC RD Remedial Design RG Record Group Remedial Investigation RI Remedial Investigation/Feasibility Study RI/FS State Historic Preservation Office SHOP Supervened Amendments and Reauthorization Act SARA Site Investigation or Site Inspection SI TMTechnical Manual U.S. Army USA U.S. Army Corps of Engineers USACE U.S. Army Defense Ammunition Center and School USADACS U.S. Army Engineer Division, Huntsville USAEDH U.S. Army Technical Center for Explosives Safety USATCES UXO Unexploded Ordnance War Assets Administration WAA WD War Department

ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX D

TEXTS/MANUALS

APPENDIX D

TEXTS/MANUALS

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- D-1. Rocket, 3.5", High Explosive, B-4)
- D-2. Cartridge, .30 caliber carbine, M-1, (B-5)
- D-3. Cartridge, .45 caliber, M1911, (B-5)
- D-4. Firing Range Safety, AR 385-63, (B-26)
- D-5. Cartridge, ARD 863-1, (B-15)

or COMP B) rockets are for blast or fragmentation effect. High-explosive antitank (HE, AT) rockets, which contain a shaped charge, are used for penetration of armored targets. Chemical rockets contain a gas for toxic or harassing effect (toxic gases in sublethal concentrations) or a smoke-producing agent for laying a smoke screen. Inert head rockets are used for target practice; the motor tontains a propellent charge similar to that of the high-explosive and chemical rockets. Inert rockets are completely inert, both head and motor; they are used for training in handling.

116. Ground Type Rockets

a. General. Ground type rockets of certain types are used by the Army and certain other types are used by the Navy. Calibers currently standardized and in authorized use range from 3.25 to 11.75 inches. Other calibers are currently under development. The 3.5-inch ground type rocket is fired, at relatively short ranges, from shoulder-fired launchers, commonly known as "bazookas." The 3.25-inch ground type is a target rocket fired from a special launcher and used as a moving aerial target for practice in firing antiaircraft weapons. The 4.5-inch rockets used by the Army are the spin-stabilized type used in field operations for ranges up to 10,000 yards and are usually fired from multiple-tube-type launch-The 4.5-inch rockets used by the Navy and consisting of Navy components are of the shroud-fin-stabilized type, commonly known as the beach barrage type and are fired from Navy launchers. of solid-propelling-charge-type rockets usually contain double-base propellant in single or multiple stick form together with a black powder igniter and an electric squib. The motors of liquid-propelling-chargetype rockets, which are constructed along the same general lines as those of the solid-propelling-charge-type, usually contain one or more acids, anilines, alcohols, or other agents and appropriate oxidizers together with means of ignition.

b. 3.25-Inch Rocket. This rocket (fig. 158) is designed to provide a fast-flying target for the training of gun crews operating automatic antiair-craft guns. The target rocket M2A2 has a long motor with a yellow light flare at the nose to provide a night target. The rocket M2A1 is used for daytime firing and has a distinguishable oversize 3-bladed plywood fin. This rocket is fired electrically by igniter M22 from target rocket projector M1. The rocket has a range of 2,350 yards and a maximum velocity of 645 feet per second. Its flare burns from 20 to 30 seconds.

c. 3.5-Inch Rockets. These rockets (fig. 159) represent the types used in the 3.5-inch shoulder-type launchers M20A1 and M20A1B1 that have the contactor latch group assembly, which indexes the rocket in the launcher and does away with the lead-in squib wires used on earlier models. These rockets also represent the types used in the 3.5-inch tripod mounted repeating launcher M25. The high-explosive antitank

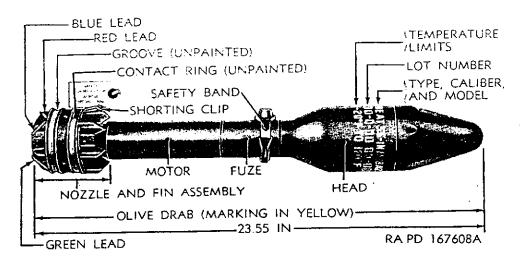


Figure 159. Rocket, HE, AT, 3.5-inch, M28A2.

(HE, AT) rocket M28A2 has the conventional electrically ignited solid propellant motor with fixed fin and uses the base detonating fuze M404A1 with waterproofing safety band. The rocket M28A2 has a velocity of 320 feet per second, will penetrate upwards of 10½ inches of armor-plate, and has a maximum range of 850 yards. The smoke (WP) rocket M30 (T127E3) has the same general shape, weight, and ballistics as the HE, AT rocket M28A2 and uses the same type motor and detonating fuze; the head is filled with white phosphorus for producing screening smoke. The practice rocket M29A2 is the same as the HE, AT rocket M28A2 except that it has cast iron inert head and dummy fuze.

- d. 4.5-Inch Rockets. These rockets are of three types, the fin-stabilized, the spin-stabilized, and the drill.
 - (1) The fin-stabilized type is represented by the Navy barrage-type rockets of which there are the "high capacity" model that has TNT-filled head designated Mk 3 Mod 0 (fig. 158), the smoke (FS)-filled head designated Mk 7 Mod 0, and the smoke (WP)-filled head designated Mk 10 Mod 0.
 - (2) The spin-stabilized type is represented by the high-explosive (COMP B) rockets T160E5 and M16A2 (fig. 160); the practice rockets T161E5 and M17A2; the smoke rocket T162; and the chemical rockets T164E1, T165E1, and T166E1. The rockets T160E5—T166 series have longer heads than the M16—M17 series, with a nonalloy-type steel motor. This motor has two bourrelets; is loaded with new-type propellant M16 (T6); and contains igniter T14E2 with the squib M1A1. The rockets M16A2 and M17A2 have the older-type head and alloy-steel motor. The high-explosive rockets T160E5 and M16A2 use the fuze M81A1, which is an assembly of the M48A3 fuze and the M24 booster, or the VT fuze M402A1. The heads of these

CHAPTER 2

	AMMUNITION, CALIBER .30	Paragraphe
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II.	Cartridge, armor-piercing, caliber. 30, M2	47–48
III.	Cartridge, ball, caliber .30 M1	49–50
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VII.	Cartridge, drummy, caliber .30, M1906	56
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XIII.	Cartridge, incendiary, caliber .30, M1	64
	Section I	
Two	GENERAL	Paragraph 41

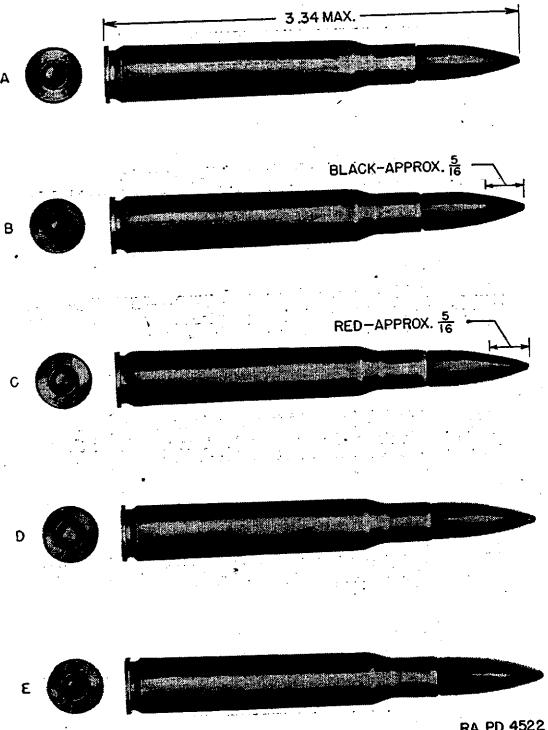
tracer, incendiary, blank, dummy, guard, and high-pressure test. figs. 17-20.)

b. Cartridges which differ in the type of cartridge case, such as subcaliber, caliber .30, and carbine, caliber .30, are described in

It includes cartridges of the following types: armor-piercing, ball,

chapter 5.

- 42. Identification.—a. In common with all other small-arms ammunition, caliber .30 cartridges are identified by the markings on the packing boxes and cartons and by the identification card. These included the type, caliber, model, manufacturer's symbol, and ammunition lot number. For further information see section III, chapter 1.
- b. Physical differences in the cartridges are described in the sections on the several cartridges.
- 43. Grades and uses.—For information concerning grades and uses see paragraph 13 and OFSB No. 3-5.



RA PD 4522

- A. Cartridge, ball, caliber .30, M2.
- C. Cartridge, tracer, caliber .30, M1.
- D. Cartridge, ball, caliber .30, M1.
- B. Cartridge, armor-piercing, caliber .30, M2. E. Cartridge, ball, caliber .30, M2, national

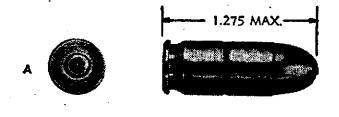
FIGURE 19.—Armor-piercing, ball, and tracer cartridges, caliber .30.

SECTION II

CARTRIDGE, BALL, CALIBER .45, M1911

	Paragraph	b
Description	·	L
Exterior ballistics	75	2

- 71. Description.—a. General.—This cartridge (fig. 21) is a current standard item of issue and is used in the automatic pistol, M1911 and M1911A1, the Colt revolver M1917, the Smith and Wesson revolver M1917, and the Thompson submachine gun M1928 and M1928A1, against personnel. To adapt it for use in the revolvers, it must be assembled in clips designed for this purpose. These clips are described in paragraph 12.
- b. Components.—(1) The cartridge consists of the cartridge case, primer, propelling charge, and the bullet. The complete assembly weighs approximately 327 grains.
- (2) The case, primer, and propelling charge for this cartridge are described in section II, chapter 1.
- (3) The bullet has a round nose and a flat base. It consists of two parts, a gilding metal jacket and slug of lead hardened with antimony. In early designs bullet jackets were made of cupro-nickel and these have a silvery appearance. This was later changed to gilding metal which was given thin tin wash which has a close resemblance to the cupro-nickel jacket. The practice of tinning the jackets has since been discontinued and the bullets of current design have the natural copper color of gilding metal. The over-all length of the bullet is 0.68 inch. The mouth of the case may be crimped to the bullet and a pull of approximately 40 pounds is required to remove the bullet from the case.
- 72. Exterior ballistics.—a. Maximum range.—(1) In pistol, 1,600 yards.
 - (2) In submachine gun, 1,700 yards.
 - b. Pressure.—14,000 pounds per square inch.
 - c. Velocity.—(1) Pistol.—(a) 25.5 feet, 820 feet per second.
 - (b) Muzzle, 825 feet per second.
 - (2) Submachine gun.—(a) At 25.5 feet, 885 feet per second.
 - (b) At muzzle, 990 feet per second.
 - d. Muzzle energy.—(1) 329 foot-pounds in pistol.
 - (2) 383 foot-pounds in submachine gun.



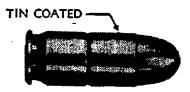




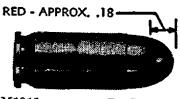












RA PD 4525

- A. Cartridge, ball, caliber .45, M1911.
- B. Cartridge, blank, revolver, caliber .45, M1.
- C. Cartridge, dummy, caliber .45, M1921.
- D. Cartridge, high-pressure test, caliber .45, M1.
- E. Cartridge, tracer, caliber .45, M1.

FIGURE 21.—Cartridges, caliber .45.

- c. Components.—The cartridge consists of the cartridge case, primer, propelling charge, and bullet. The complete assembly weighs approximately 303 grains.
- (1) The cartridge case, primer, and propelling charge for this cartridge are described in section II, chapter 1.

Chapter 8 Rockets

8-1. Firing conditions

The requirements in this chapter apply to the 35mm M73 practice rocket, 66mm M72 light antitank weapon (LAW) rocket, 66mm M74 incendiary rocket, and 3.5-inch rocket.

- a. Before firing, the danger zone to the rear of the launcher will be cleared of personnel, materiel, and vegetation.
- b. The danger zone to the rear of the launcher (Area F) is an isosceles triangle with apex at the breech and the width of triangle corresponding with rearward extension of line of fire. Base and depth of triangles are shown in table 8-1.
- c. When firing the 35mm, 66mm, or 3.5-inch rockets from shoulder launchers, all loading preparation for firing and unloading will be on the firing line, with the muzzle pointed downrange.
- d. When firing the 3.5-inch rocket from the shoulder, firing personnel will wear protective goggles at temperatures of 70 degrees Fahrenheit and above. At temperatures below 70 degrees Fahrenheit, the field pro-

tective mask will be worn to protect the eyes and face from small particles of unburned propellant that may be blown from the rear of the rocket as it leaves the muzzle of the launcher.

- e. All backblast areas are doubled and firers should wear protective masks when the LAW is fired in temperatures below freezing.
- f. Rockets will not be fired over the head of unprotected friendly troops unless protection provided against direct impact is adequate to defeat the type of rocket being fired.

8-2. 66mm LAW, M72 series; 66mm incendiary rocket, M74; and 35mm subcallber practice rocket, M73

The danger zone for firing these weapons is shown in figure 8-1. Distances for Areas A, B, X, and F are given in table 8-1.

8-3. 3.5-inch rocket launcher

The dimensions shown in table 8-1 and figure 8-1 will be used to determine the danger zone for firing the 3.5-inch rocket launcher at fixed targets or moving ground targets.

Table 8-1
Rocket launchers
(Dimensions of areas in meters)
(See fig 8-1.)

	Minimum range to A B impact X F		F			
Weapon			•		Depth	Base
3.5-inch rockets	250	250	250 '	950	70	70
86mm HEAT rocket M72	250	250	75	1000	40	25
66mm incendiary rocket M74	100	100	50	1000	40	38
35mm subcaliber (Practice rocket M73)	100	100	50	1150 ²	40	25

Notes:

1. May be reduced 80 percent for short limit of target when firing nonexplosive warhead from unprotected positions or explosive warhead from protected positions.

May be reduced by waiver if there is steeply rising terrain behind the target or overhead baffles and positive controls are used to limit elevation of the launcher at the firing position.

Elevation (degrees)	Range (meters)	Meximum Ordinate (meters)	
5	343.	8	
10	591	30	
15	776	62	
30	1082	203	

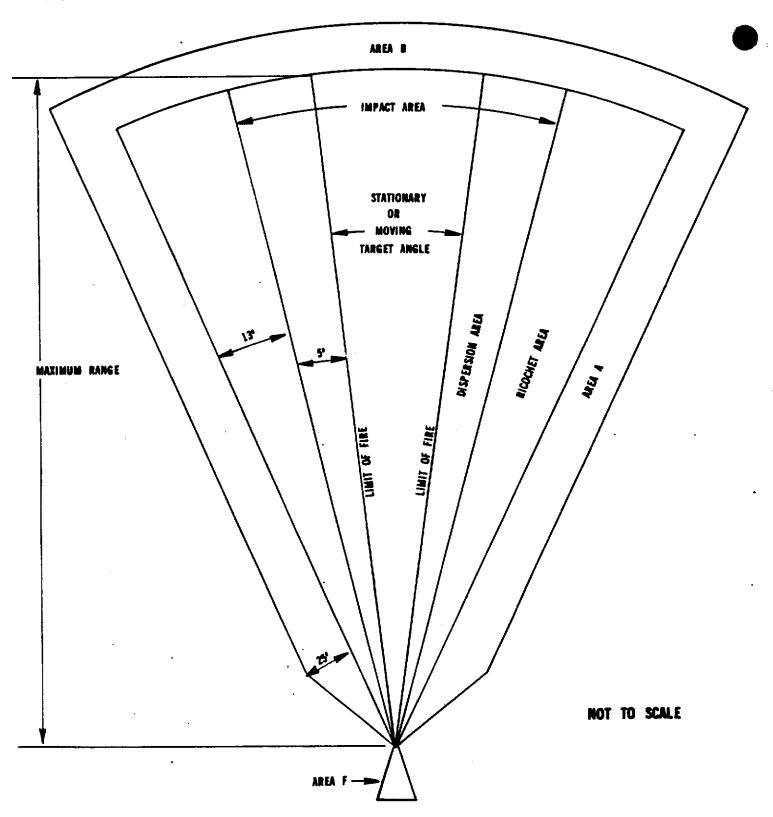
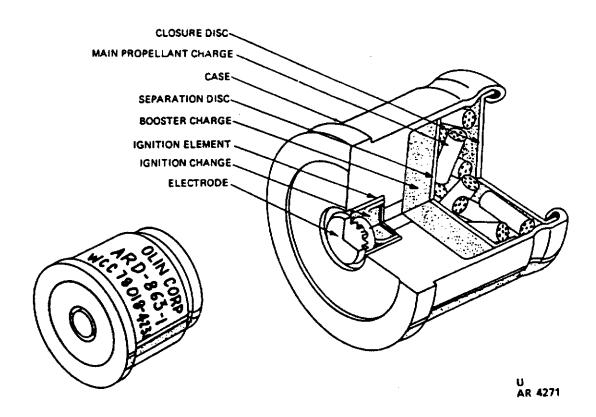


Figure 8-1. Surface danger zone for rocket launcher firing at fixed or moving ground target (See table 8-1.)

CARTRIDGE, IMPULSE: ARD-863-1 (M189)



Type Classification:

Refer to Aircraft Subsystem.

Use:

For external stores ejection on the AH-1 series helicopter.

Description:

The ARD-863-1 Impulse Cartridge is a standardized store ejection and release car-

tridge and consists of a cylindrical aluminum alloy case and ignition element (electrode, bridgewire, and ignition charge) and a separation disc. The CCU-44/B Impulse Cartridge NSN-1377-01-033-2622 (MD66) is a suitable substitute for the ARD-863-1 (M189).

Functioning:

Upon receipt of an electrical signal the ignition element is fired and the resulting gas pressure ignites the main charge. When sufficient pressure is developed, the closure disc ruptures and the released gas pressure actuates the release/ejector mechanism.

Functioning:

When the cable cutter switch is operated, electrical current initiates the cartridge in the cable cutter. The expanding gas from the cartridge forces the punch against one side of the cable as the other side of the hoist cable is forced against the anvil in the cable cutter. The cutting edge of the punch severs and releases the cable and its load from the hoist. The cutting punch also secures the reeved end of the hoist cable in the cable cutter, thus preventing whiplash.

Tabulated Data:

NSN	1377-00-999-7463
DODIC	M162
Drawing number	2518426
Vendor (CAGE Code) and	
part number	(40912) MSA96713
Item weight	0.04 lb (0.02 kg)
Diameter	0.500 in. (1.27 cm)
Length	2.109 in. (5.36 cm)
Method of actuation	Electrical 5
Medica of actions	amperes
Body material	-
Propellant/explosive materi	al:
Type	Double base
Weight	0.0003 lb (2.10
MetRic	grains)
	_

Performance:

Firing Temperature Limits:

Upper	+160°F (+71°C)		
O PP	CEST (EASC)		
Tower	-65°F (-54°C)		

Packaging:

Inner Container:	VIII O 10464
Reference	MIL-C-10464
Type	Type 1 hermeti- cally sealed metal container
Dimensions	$2.625 \times 2.625 \times 1.5$
	in.
Items per package	2
Outer Container:	
Reference	PPP-C-1672
Type	Fiberboard box
Dimensions	$17 \times 12 \times 9 \text{ in.}$
Dimensions	$(43.18 \times 30.48 \times$
	22.86 cm)
Weight	2 lb
Cube	0,303 04 10

Shipping and Storage Data:

Quantity distance class	1.4
Storage compatibility group	s
DOT shipping class	C
DOT designation	Small Arms Ammunition, Class
	C Explosive,
	Handle Carefully,
	Keep Fire Away
	170ch 1 11 c 11 u ~ 2

References:

TM 9-1377-200-20&P TM 55-1520-209-23 TM 55-1520-227-23 TB 9-1300-385, App B

ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

APPENDIX E

REPORTS/STUDIES

APPENDIX E

REPORTS/STUDIES

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- E-1 DERP/FUDS (INPR) for Kingsley Firing Range Annex, Klamath Falls, Oregon, (B-6)
- E-2 Fact Sheet, Kingsley Firing Range, Portland COE, (B-17)

DEFENSE ENVIRONMENTAL RESTORATION ACCOUNT FORMERLY USED DEFENSE SITES PROGRAM FINDINGS AND DETERMINATION OF ELIGIBILITY

KINGSLEY FIRING RANGE ANNEX, OREGON

SITE NUMBER F100R056900

FINDINGS OF FACT

- 1. The Department of the Air Force acquired 44.46 acres of fee lands and 1.88 acres of easement lands by transfer from the General Services Administration (GSA) on 8 June 1965. An additional 160.00 acres were leased for use as an impact area. The original lease ran from 4 April 1955 to 1 July 1975 and a second lease ran from 1 july 1975 to 31 December 1975. The acquisition information available is incomplete. The total area of the firing range was 206.34 acres.
- 2. The improvements constructed at the site were used in connection with the Kingsley Firing Range Annex. The site was determined to be under DOD control during the period of DOD jurisdiction and use.
- 3. The 160.00 acre lease was terminated on 31 December 1975. The 44.46 acres fee and 1.88 acres easement were excessed to the GSA on 9 August 1977. The GSA conveyed the 46.34 acres to the Heritage Conservation & Recreation Service who quitclaim deeded the lands to the City of Klamath Falls on 31 August 1979. The deed contained a recapture clause and in 1986, the City of Klamath Falls passed a resolution to prepare documents for the reversion of the property to the United States. In December 1987, the GSA acknowledged receipt of the reverted property. The GSA subsequently disposed of the 46.34 acres. All of the parcels are currently in private ownership. The disposal records are incomplete. The total acreage excessed was 206.34 acres.

DETERMINATION

Based on the foregoing Findings of Fact, the site has been determined to be formerly used by the Department of Defense. It is therefore eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 U.S.C. 2701, et seq.

23 Oct 93

Date

ERNEST J. HARRELL

Major General, USA

Commanding

PROJECT SUMMARY SHEET FOR DERP-FUDS OEW PROJECT F100R056901 KINGSLEY FIRING RANGE ANNEX, OREGON SITE NO. F100R019100 9 OCT 92

PROJECT DESCRIPTION: This is a former Air Force small arms firing range. The entire range was fenced and there are two locked gates on the access road to the range. There is a low-density residential area under development adjacent to the range, but the range fence and the second of the two locked gates separates the two properties. During the two telephone interviews, neither of the local contacts mentioned finding any munitions or debris, however, during the site visit, a rifle shell (7.62mm? brass) and a 40mm? shell casing were found. Records indicate that the leased property was inspected and cleared of any ordnance prior to the termination of the lease.

PROJECT ELIGIBILITY: Records indicate that the area was used by the Air Force for small arms practice.

POLICY CONSIDERATIONS: There is no policy applicable to this project.

PROPOSED ACTIVITIES: The INPR should be referred to HND for a determination of further action.

RAC: Attached. The RAC score is II-B, RAC 2.

POC: Michael Gross, CENPP-PE-DC, (503) 326-6489.

FACT SHEET ON KINGSLEY FIRING RANGE ANNEX--F100R019100

1. Acquired:

- a. Tract P--By transfer (formerly Tract M) by letter dated 21 May 65 (accepted 8 Jun 65) from GSA.
- b. Tract Q--By transfer (formerly Tract N) by letter dated 21 May 65 (accepted 8 Jun 65) from GSA.
- c. Tract 600--By transfer effective 1 Jan 66 from Klamath Falls Army National Guard Rifle Range.

2. Area Acquired:

- a. Tract P--44.46 acres fee.
- b. Tract Q--1.88 acres eaesment.
- c. Tract 600--160.00 acres lease.

3. <u>Legal Description:</u>

- a. Tract P--SE 1/4 of the NE 1/4 of the SE 1/4 Sec. 15, NE 1/4 of the SE 1/4 of the SE 1/4 Sec. 15, SW 1/4 of the SW 1/4 Sec. 14, and SW 1/4 of the SE 1/4 of the SW 1/4 Sec. 14, T.38S., R.9E., W.M.
- b. Tract Q--NE 1/4 of the SE 1/4 Sec. 15, T.38S., R.9E., W.M.
- c. Tract 600--N 1/2 of the NW 1/4 of Sec. 23 and N 1/2 of the NE 1/4 of Sec. 23, T.38S., R.9E., W.M.

4. Disposed:

- a. Tract P--Conveyed to Dept. of Interior (Heritage Conservation and Recreation Service; part of National Park Service but disbanded in 1982) to City of Klamath Falls by quitclaim deed dated 31 Aug 79. City of Klamath Falls returned the property to GSA in 1987. (Fabian Hughey in San Francisco GSA office is the account person. Control No. 9-GR(1)-OR-434J (should be F). Property subsequently sold to S.K. Madan, P.O. Box 70910, Pasadena, CA 91107, (XXX) 250-1188, current owner, per county assessor's office telecon 3-19-92, assessor's office.
- b. Tract Q--Conveyed to Dept. of Interior (Heritage Conservation and Recreation Service) to City of Klamath Falls by quitclaim deed dated 31 Aug 79. County assessor's office didn't show a current owner, but since it is an easement for access, it is probably a county or city road.

pit where we found old metal cans of the type used in military rations, used brass (7.62mm), a used shell (approx. 40mm), and a metal band of the type used to enclose ammunition boxes. I walked along the fence and found two old, weathered signs that said: EXPLOSIVES DISPOSAL AREA KEEP OUT and DANGER SMALL ARMS FIRING IN PROGRESS KEEP OUT. These signs were mounted on the barbed wire fence that separates the range area from the county road. The fence has several areas where the wire is broken and allows easy entry. Approximately 1/4 mile northeast of the disposal pit is another range area. We did not do into this range and there were no structures noted there.

4. We concluded that none of the remaining structures qualified for the DERP program, because they are all in fair shape and in no danger of collapse. The range is eligible for further study, at least, due to the materials found at the disposal pit and the fact that this was a range area.

Jerry R. Gardenhire Civil Engineer ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

APPENDIX F

LETTERS/MEMORANDUMS/MISCELLANEOUS ITEMS

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F-1 Request for Bid, General Services Administration, 15 December 1964, (B-8)

GENERAL SERVICES ADMINISTRATION



Utilization & Disposal Service GSA Center Auburn, Washington TEmple 3-6500, Ext. 265 Area Code 206 The information below must appear

in lower left corner of bid

envelope:

Invitation No. 10UR-164

Bid Opening: December 15, 1964

Time: 11:00 A.M., PST

, Bid for Real Property - Purchase

INVITATION FOR BIDS, BID AND ACCEPTANCE FOR SALE OF GOVERNMENT PROPERTY

Former Marine Recuperational Barracks Klamath Falls, Oregon GR-Ore-470A

Approximately 674 acres of land with improvements

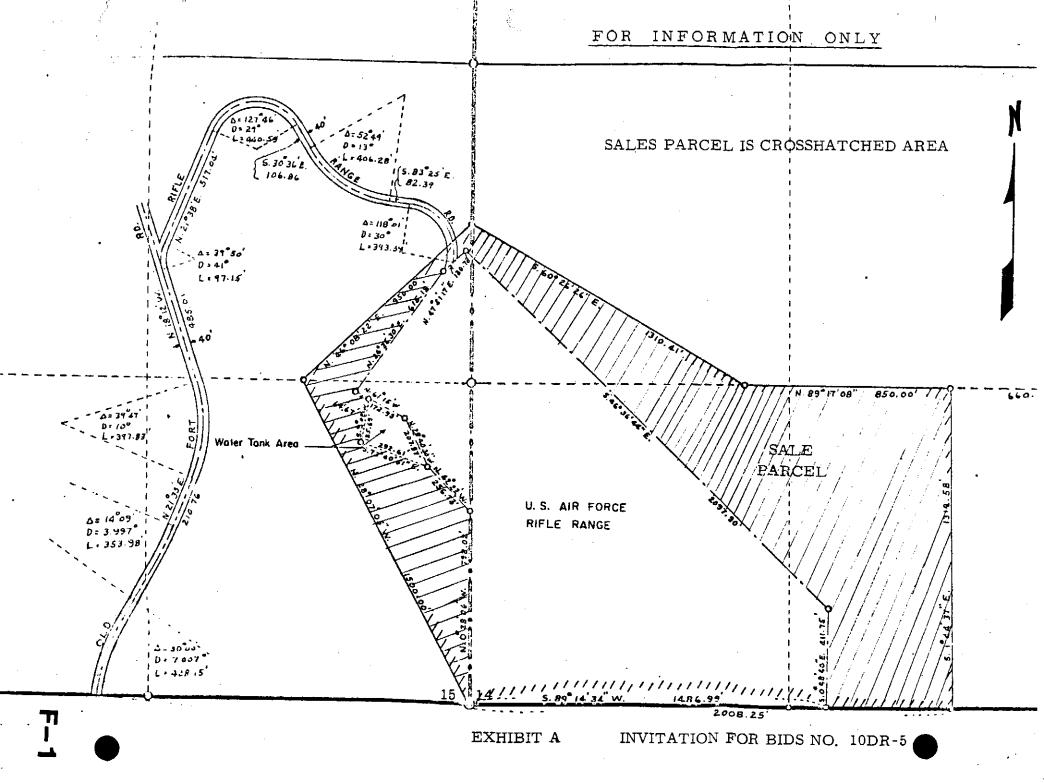
INVITATION FOR BIDS

Sealed bids, in duplicate, for the purchase of the Government property described in the schedule portion of this Invitation for Bids will be received until 11:00 A. M., PST, December 15, 1964, and then publicly opened and recorded at the General Services Administration Office, Room 101, Federal Office Building, 909 First Avenue, Seattle, Washington.

This Invitation for Bids is issued subject to, and bids submitted pursuant to this Invitation for Bids must be in compliance with and subject to the provisions of this Invitation for Bids, including the Schedule portion thereof, and (1) the Instructions to Bidders, GSA Form 1741; (2) the General Terms of Sale, GSA Form 1742; (3) the Special Terms of Sale, Invitation No. 10UR-164 and (4) the provisions of the Bid Form and Acceptance, all of which are attached to this Invitation for Bids and by this reference made a part thereof.

SCHEDULE

The property offered herein consists of approximately 674 acres and 84 buildings plus approximately 10.8 acres of utility easements. It was formerly the campus of the Oregon Technical Institute and is located within



ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX G

REAL ESTATE DOCUMENTUMENTS

APPENDIX G

REAL ESTATE DOCUMENTS

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- G-1 Letter referencing transfer of land, 1 August 1947, (B-9)
- G-2 Declaration of surplus property, Date Unknown (B-10)
- G-3 Document of land easement, 24 September 1964, (B-11)
- G-4 Letter of land transfer, 8 February 1965, (B-12)
- G-5 Letter of excess land transfer, 15 June 1965, (B-16)
- G-6 Letter of transfer, 21 May 1965, (B-13)
- G-7 Document for transfer excess property, 8 February 1965 (B-15)
- G-8 Quitclaim deed, 1 December 1964, (B-14)
- G-9 Assessor's document, 7 August 1995, (B-21)

reply refer to: AGR-O

August 1, 1947

10 t

Regional Director-PRD-SIX

Fortland, Oregon

B. W. Pendarvis Opeoked Level Kardez

TROX:

Associate Ceneral Counsel

for Beal Preparty Disposal- ACR

SUBJECT: Quitelaim Bood Covering U. S. Marino Recuperational Barracks, Klamath Falls, Greger, WAL-Ja-MYD-882

Reference is unde to your letter of June 2, 1947, transmitting proposed form of Quitelaim Dood for the disposal of the subject presents to the State of Gregon.

There are transmitted beverith criminal and three series of a sample form of deed which should be used in lieu of the proposed instrument submitted by you.

It will be noted that no receivation of finciousle materials or rights pertaining therets are contained in the instrument for the reason that the Department of Interior has advised this Administration that the same do not exist in substantial quantities. Your attention is further invited to condition No. 10 of the recommendation in the memorandes to the Real Property Review Board approved by that Board which provides for payment of external administrative expenses by the State. This should be accomplished simultaneously with or prior to the execution of the convergeor instrument, this being a condition procedest to transfer,

The personalty should be transferred by utilisation of the attached bill of sale which may be medified in the event that the requirements of the law of the State of Oregon warrant the sens.

Subject to the foregoing comments, the instrument may be described. After execution, please transmit to this effice conformed copies thereof, together with the documentation required by Real Property Letter No. 45.

LOCALE

HURLET HILLER

MHMiller/73823/esI AG-Real Prop Div-AGR-G Rm 291-Annex 2

(SIGNED) JUHN A. LOOMIF co: Cen Cal-AG Zone Adm-VI

Attachments: (2)

ACR-C

ACH-C

1. Quitelaim Doed (b) 2. Mill of Sole

Actg Dep Adm-PD LGen Serv File-AGR-G R P File

Porm SPR-5

UNITED STATES OF AME	7
SURPLUS PROPERTY I.	ЯĐ

DECLARATION OF SURPLUS REAL PROPERTY

(In the continental United States, its Territories and possessions) to the Surplus Property Board, Washington 25, D. C.

IMPORTANT. Instructions for completing this form appear on reverse-

1. FROM

Real Estate Division, Bureau of Yards & Docks Navy Department, Bureau of Yards & Docks Annex Washington 25, D. C.
2 LOCATION OF PROPERTY (ATTACH MAP)

Klamath Falls, Klamath County, Oregon

3 REPRESENTATIVES TO CONTACT
Commanding Officer, Marine Recuperational
Barracks, Klameth Fails, Oregon

4 USE OF PROPERTY WHEN A COURSED

Grazing and farm land.

5. OPINION OF BEST FUTURE USE

Recreational area and grazing land.

7. DATE	8 REPORTING AGENCY NO.		
	88		
9. SURPLUS PROPERTY BOARD NO.	10 DISPOSAL AGENCY No.		
NOre. 35			
IT APPROXIMATE AREA			
734.26 Acres			
12 COST OF PROPERTY			
ACQUISITION	; 3,620.00		
BETTERMENTS	, 5,777,700.00		
TOTAL	, 5,781,320.00		
13 PROCEEDS: IF "REIMBURSA APPROPRIATION OF GOVERNME	BLE", GIVE SYMBOL AND TITLE C		

Hurout No. 16-R005.2

6. GENERAL DESCRIPTION OF PROPERTY

The Navy Department hereby declares as surplus the following:

(1) Tract of approximately 734.26 acres of land, together with the buildings and improvements thereon, acquired by the Government at a cost of \$2,438.00, through the institution of condemnation proceedings on July 10, 1944, by the Navy Department.

(2) A perpetual easement over 10.73 acres of land for sewer and power lines to the above tract, together with the improvements thereon, acquired by the Government at a cost of \$1,182.00, through institution of condemnation proceedings on January 4, 1944 by the Navy Department.

All of the above mentioned property is located at Klamath Falls, Klamath County, Oregon, and was used as a recuperational hospital for the United States Marine Corps.

The Government improved the property at a cost of approximately \$5,777,700.00 by errecting installations thereon which include quarters, hospital, rehabilitation school, administration building, storehouses, dispensary, laboratory, bakery, garage, gasoline filling station, stable heating plant, guardhouse, firehouse, auditorium, gymnasium and swimming pool.

The State of Oregon has informally expressed an interest in obtaining the property declared surplus. The Bureau of Reclemation of the Department of the Interior has expressed an interest in obtaining the automotive equipment. The former owners of this property are F.C. Carlson, Frank Chitwood, C.C. Hard, D.D. & D. Liskey, H.V. Lewis, Clara Collman and S.G. Budden, all of Klamath Falls, Oregon.

DO	NO	 11	1N

FOWARDED BY SPB TO.

14. AUTHORIZED BY

WILLIS R. DUDLEY

(Name of reporting official (pieces type))

Acting Head, Real Estate Division

(Title (p'ease type)

That also

(Signature of authorized official)

HEADQUARTERS

KINGSLEY FIELD and 408TH COMBAT SUPPORT SQUADRON(ADC)

UNITED STATES AIR FORCE
KINGSLEY FIELD, OREGON 97601



REPLY TO

· ·

408B-IDC-RP

2 4 SEP 1964

suesect: Acquisition, Transfer & Easement Land at Former OTI Campus

TO 25 Air Div (25IRP-PEL)

- 1. Request necessary action be taken to transfer to the Air Force approximately 90 acres of land which has been reported as excess to GSA. The area is located at the former OTI campus, and is indicated as parcel A on attached drawing #KNG 900-038.
- 2, Further request an easement for an existing access road indicated as parcel B on referenced drawing.
- 3. OTI has constructed a new campus at another site in Klamath Falls, and has evacuated this site. The land requested by us will no longer be utilized by them.
- 4. Parcel A is a rifle range, and will be utilized as such by us.
- 5. Justification for acquisition in accordance with par 9d(1) thru (5), par 16 & 24, is as follows:
- a. Real property to be acquired in transfer is a tract of land indicated as parcel A, less the area indicated as parcel C, on the attached drawing, and an easement for the access road indicated as parcel B. A rifle range exists on parcel A consisting of target pits, 200, 300 & 500 yard mounds, and 2 ea target frames. The area is located approximately 12 miles northeast of of Kingsley Field.
- b. Parcel A containing approximately 90 acres will be utilised as a firing range for training and maintaining proficiency in the use of fire arms as required by AFM 50-25, and AFRs 50-8 and 50-13. Kingsley Field does not have a range nor is there a suitable and/or large enough area available on the base to establish one. This firing range is the only one available in the area without sending personnel TDY to qualify and become proficient in the use of their weapons. Kingsley Field has been using the range through a verbal agreement with the director of OTI but use was rather limited under those conditions with firing on the range at a minimum. New that OTI has evacuated the site Kingsley Field personnel will have to be sent TDY to qualify with their weapons

unless the area is acquired by the Air Force. Parcel B is an existing access road into the range: an easement 12.5' bot! sides the center line is required for utilization and maintenance of the road.

图 Reproduced at the National Archives-Pacific NW Region 中国企業

- c. As stated in par 5b, above, the base has had limited use of the range in the past, to meet the requirement.
- d. Possession is required at the earliest possible date, and occupancy will be required for the duration of operation at Kingsley Field as a military operation at Kingsley Field.
 - e. Estimated cost of easement unknown.
 - f. Fund citation unknown.
 - g. No services or utilities, etc to be provided.
- h. No other government owned real property is available in the area to meet the requirement.
 - i. Certificate of Necessity not required.
- j. The land is a precipitous wooded area, completely unsuitable for farming or home sites. Excepting the access road only that portion of the land in the immediate vicinity of the firing range has been utilized. The remainder of the area is idle. No immediate maintenance is required; only nominal future maintenance on the access road and firing range is anticipated.
- k. The only relabilitation, modification, alteration or other improvement anticipated is fencing and posting of the area to preclude children wandering into the area, cost approximately \$4,000. Maintenance of the access road and firing range is estimated at \$500 annually.
- 1. Not required in place of new construction previously requested and disapproved.
 - m. No storage and warehousing facilities are required.

FOR THE BASE COMMANDER

M. DAN TANIELIAN Super. Gen. Engineer

2 Atch

1. Dwg #900-038 (sepia, 5 cy)

2. Statement of Review

Cy to: AFRCE-NP (Mr Webb) DISTRICT ENGINEER (NOT TO INDIVIDUALS)

U. S. ARMY ENGINEER DISTRICT, SEATTLE

CORPS OF ENGINEERS 1519 ALASKAN WAY SOUTH SEATTLE, WASHINGTON 98134 Kossie

REFER TO NPSRE-AQ-P Firing Range at Former Oregon Technical Institute, Klamath Falls, Oregon

8 February 1965

General Services Administration Region 10 Auburn, Washington

Gentlemen:

The inclosed Request for Transfer of Excess Real Property includes the firing range and access road at the above noted facility less Parcel C as identified on the inclosed drawing. A 25 foot wide easement is requested for the access road (Parcel B) for a distance of 3600 feet. A reservation for the water line (location unknown) may be included in the transfer.

Sincerely,

mistraise

2 Incl

Request (quad)

2. Dwg KNG 900-038 (trip)

M. M. CHRISTIANSEN Chief, Acquisition Branch

Real Estate Division

Can we describe this O.

Director, Regional Data & Financial Management 10BC

June 15, 1965

Chief, Real Property Division, UDS 10UR

10UR

Transfer of excess real property
Marine Recuperational Barracks, Klamath Falls, Oregon
GSA Control No. GR-Ore-470A

Attached is copy of transfer document whereby a 44.464 acre parcel of land at the Former Marine Recuperational Barracks, Klamath Falls, Oregon, GSA Control No. GR-Ore-470A, was transferred to the Corps of Engineers for use by the Air Force. Title, Custody and accountability were accepted as of 4:00 P.M., June 8, 1965.

The acquisition cost of this parcel was \$93,000. The fair market value was \$3,450. Reimbursement is to be made in the amount of \$1,725. It will be appreciated if you will advise when this reimbursement has been received.

V. L. Barnes

Enclosure

10UR:RAStuart:fb 6-15-65

DETERMINATION OF FAIR VALUE FOR TRANSFER

Subject:

Portion of Former Marine Recuperational Barracks,

Klamath Falls, Oregon

Pertinent Data:

Corps of Engineers has requested transfer of a 44.464 acre parcel of land for use by the Air Force at the Former Marine Recuperational Barracks,

Klamath Falls, Oregon.

Summary of Values:

The reported acquisition cost of the firing range property is \$93,000. The fair market value has

been determined to be \$3,450.

Pursuant to GSA Handbook UDS P 4000.1, Chapter 2, Paragraph 43, the fair value for transfer is hereby determined to be:

50% of \$3,450 or \$1,725

Approved by

V. L. Barnes, Chief, Real Prop. Divn.

Utilization and Disposal Service

GI	ENERAL SERVICE	ES MINISTRAT	104	1 - GSA CONTROL		PAGE 1 OF	PAG
REQUI	EST FOR TRAN	SFER OF EXCE	CC DEAL	10UR-164		THIS BLOCK FOR AGENCY RECEIVING	USE BY
/ PROPERT	TY AND RELAT	ED PERSONAL	PROPERTY	2. DATE OF REQUES	T	DATE REQUEST RECEIVED	
- 4. TO (Name and ac	dress of stener b	eine requested to		8 Februa	ry 1965	2-15-65	
	property)		* FROM (Name and	address of agency	requesting	HOLDING AGENCY NO. (I	(any)
General Se	ervices Admi	nistration		Engineer Dis	F 01	n-are-33-	401
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Auburn, Wa	shington		Seattle, W	shington 98	134	\$ 92,000	
				•		FAIR VALUE	
S. REQUESTING AGE!	NCY'S REPRESENTAT	IVE TO BE CONTACTED				\$ 1725	
B. P. BENN	UKWATION (Name an	d addrese)	100.00	IFICATION AND ADDR	ESS		
U.S. Army	Engineer Di	Rt. Contella	Firing Ran	ige			
warank	AN WAY Sout	h	3 miles for	nnical Inst	itute - ap	proximately)	لموم
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USE.	BUILDINGS	FLOOR AREA (Sq. Ft.)	GOVERNMENT'S	AREA (Acres or Sq. Ft.)		0.7217125	
I) OFFICE	(6)	(c)	(a)	<u>(b)</u>	2 ea.	target pits	
2) STORAGE			(1) FEE (2) LEASED	90 acres	2 ea.	target frames	
OTHER (Specify)							
			House (Koud) Easement	2 acres			
) TOTAL			(4) TOTAL	92 acres			
. RELATED PERSONAL	PROPERTY REQUEST	EO		NE GALER			
Non							
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program; that	the transfer th	that this Agency	has a need for the	property ident	fied above t	o carry on an approv ord with the intent	ed
guidelines ex	Tespect to such	program; and the	t the intended us	e thereof would	ore be in acc	ord with the intent intent with the poli	m š
fication unde	r block 11 below	for the transfer	of the property	-2, dated Octobe	T 18, 1955. 1	istent with the poli The statement of jus	ti-
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	ensikert")		Ch, Real Est	ate Diller	G Assess 17	gr Dist, Searti	7
. STATEMENT OF	JUSTIFICATION	(This statement			DALL FACTORS	gr. Dist , Seattl covered in item 11	<u> </u>
Instructions	for the Prepara	ion of GSA Form 1	334. See GSA Reg.	2-IV-202.071	: acrold	Corered In Item []	of the
	Coperty wil		_			•	

property will be used by the Air Force for a firing range for training military personnel in the use of firearms as required by Air Force regulations. All of the area will be used. The Air Force appropriation will be benefitted. This property has been used by the Air Force through a verbal agreement with the Director of Oregon Technical Institute. There is no other suitable property available. Probable sale price of the property is \$7,740. Transfer of the property will save the Air Force the expense of sending military personnel on temporary duty to other

WASH DC 57-11089

Surject to existing easements for seal, the public utilities, railways only ellows. e fame property acquired by the Pritter on under condemnation properties and 50, 2635, 2635, 2635, 3635, 313, 325, 2526 in the District Court of the Prit District of Oregon. This Deed is made and delivered to confirm of record that all right, title and interest of the STATE OF DESGRE, in and to the property above described has reverted to and tweeze the property the UNITED STATES OF AMERICA, its successors and assista, patrison to the provisions of that contain Quitclaim Dend executed by the PRII ϕ STATES OF AMERICA to the STATE OF ORESON detail letone: 05, 1,447, and filed for recordation in the Office of the County Cleuk of Elamoth County in the State of Oregon on December 6, 1947 and that contain Notice reverting title to the aforesaid property executed by the UNITED STATES OF AMERICA, noting by and bringsh the 2 refuty of Health, Education, and Welfare bearing even date herewith. IN WITHESS WHEREOF, the STATE OF ORDOON has calculated this instrument to be executed as of the $\frac{1st}{2}$ day of $\frac{0}{2}$ then 1964. ORLEON
y and through "I State Bos"
r Education by is President
etary thereinte duly autorresolution of said Board and
isions of Section 351.150, And by Secretary STATE OF OREGON County of

G-8

93827 July 1 14

DUPLICATE ORIGINAL

TOTTOLATE CECT

THE STATE OF ORBOOK does hereby remise, release and quitclain to the UNITED STATES OF AMERICA, its successors and assigns, all right, tible and interest in and to the following described real property and improvements thereon situate in the County of Klamain, in said State:

Parcel 1 - 3 1/2 ME 1/4, ME 1/4 DE 1/4 DE 1/4 NW 1/4, Dec. 15, T.j5 S., 2 9 E. W.M.

- * 2 N 1/2 NW 1/4, Sec. 15, T.38 S., A.9E. W.M.
- H 4 S4 1/4 KW 1/4, Sec. 15, T.38 S., R.9 E. W.M.
- 5 NE 1/4, SW 1/4, W 1/2 SE 1/4, Sec. 15, T.38 S., R.) E. W.M.
- # 6 58 1/4 NW 1/4, SW 1/4, Sec. 14, 7.36 S., 8.9 E., W.M.
- " Z = SW 1/4 NW 1/4, Sec. 14, T.38 S., R.9 E., W.H.
- * 9 SE 1/4 SW 1/4, Sec. 15, T.38 S., B. 9 E., W.M.
- H 10 NW 1/4 SW 1/4, Sec. 15, T.38 3., R. 9 L., 4.H.
- * 12 The S. 465,444 of the NW 1/4 NE 1/4, Sec. 15, T.38 S., R 9 E., W.H.

foguther with a perpetual easement for sewer are power lines over 10.8 acres of land described as follows:

That portion of Sections 28, 27, and 22 of To-: nir 30 S. Range 9 East, Willamette Meridian, in Klamath county. Oregon, lying within a strip of land 50 feet in width,

Beginning at a point, same being on the half scatton line and 113.13 feet west of the 3.3. Corner of the 6.4.1/4 of Section 28 M. 48° 45′ East, a distance of 366.54 feet to a point; thence North 38° 15′ East a distance of 4.9.4 feet to a point lying in Section 27; thence North 3° 29′ East a distance of 4.9.4 feet to a point; thence North 3° 3° East a distance of 4.9.4 feet to a point; thence North 3° 45′ East a distance of 29′ feet to a point; thence North 3° 45′ East a distance of 29′ feet to a point; thence North 36° 42′ East a distance of 59′ feet to a point; thence North 36° 56′ East a distance of 189.6 feet to a point; thence North 36° 56′ East a distance of 189.6 feet to a point; thence North 36° 56′ East a distance of 1968.9 feet to a point; thence North 30′ 56′ East a distance of 730 feet to a point; thence North 20° 4.7 East a distance of 35° feet to a point; thence North 3° 50′ 4est a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point; thence North 27° 65′ east a distance of 53° feet to a point;

Containing 10.8 acres, mote or less.

Together with appurtuant vauments, buildings, structures and improvements located thereon.

Subject to existing researchs for runis, high-rys, public utilities, railways and fi, elfacs.

Being the rand property acquires by the filted Classes of Abrila under roots to all property, as a large 25th [Feb. of a 745]. In Fig. 25th [Feb. of Abrila 1887]. 26th [Feb. of a 745]. In Fig. 25th [Feb. of Abrila 1887].

G-8

ASSESS. DWNERS	KLAMATH COUNTY ASSESSOR	08-07-95	
156 R-3809-02200-00100-000 WIRTH BRUCE R & MAXINE L PD BOX 477 KLAMATH FACES OR 97601	127 156 R-3807-02200-00200-000 COLLMAN GEORGIA	156	129 HAGER 2070 KLAMA
129 R-3809-02200-00400-000		129 R-3809-02200-00600-000	_156
BELLETT JAMES J & SHERRY A	HERRON MICHAEL N & CHARLENE K	MC'DONALD HARRY E & MARY JO	OTTEN 2130 KLAMA
125 R-3809-02200-00800-000	125	156	129
T&V-CORP 2314 SOUTH 6TH ST KLAMATH FALLS OR 97601	154 R-3809-02200-00801-000 OLD-FORT ROAD SAND & GRAVEL INC 3427 WASHBURN WAY KLAMATH FALLS OR 97603	125 R-3809-02200-00801-000 OLD-FORT ROAD SAND & GRAVEL INC 3427 WASHBURN WAY KLAMATH FALLS OR 97603	PUTNA P O E KLAMA
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3 COLLMAN GEORGIA	129 R-3809-02200-01900-000 JONGEWAARD DALE TRUSTEE	<u> SHERIDAN ROBERT C & BARBARA J K</u>	129 COLL!
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ASSESS. UMNERS	KLAMATH COUNTY	ASSESSOR	08-07-95	
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KEAMAIM COUNTY ASSESSUR	08-07-95	Page 4
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183 R-3809-015D0-00800-000 MBK-PARTNERSHIP 1763 WASHBURN WAY KLAMATH FALLS DR 97603	183 R-3809-015D0-00900-000 DENSON RODNEY & NANCY 3442 OLD FORT RD KLAMATH FALLS OR 97601	STEWART MATTHEW A & DARCY K 1763 WASHBURN WAY KLAMATH FALLS OR 97603
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ORDNANCE AND EXPLOSIVES
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FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX H

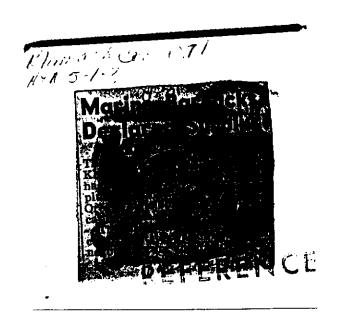
NEWSPAPERS/JOURNALS

APPENDIX H

NEWSPAPERS/JOURNALS

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- H-1 Klamath County News, 20 April 1946, (B-18)
- H-2 Klamath County News, date unknown, (B-19)
- H-3 Journal of America's Past, Jan 1990, (B-20)



Marine Post Set To Close On March 1

(Continued from Page One)

ing its facilities in connection with a regional survey.

First reports of the veterans administration plan, however, indicated that it would probably locate on another site in the Klamath vicinity and build from the ground up, with fireproof hospital buildings. A suggestion that the fireproof buildings could be built on the Marine Barracks site, making use of its swimming pool, gymnasium and other recreational facilities, as well as many other buildings and features there, has been advanced locally and presumably will be given consideration by the veterans administration. Possible other public use of the post has been suggested.

At present, there are about 1000 enlisted personnel at the Marine Barracks, with a total complement of about 1200,

Col. Brooks said today he has not yet received direct instructions with respect to disbanding the post, and he will make announcements of interest locally as the closure details are worked out.

Although it is scheduled for disbandment as a marine corps installation, the local post is still undergoing construction. A contract for several additional 'acilities is just being completed. the post has facilities for 5000 men.

Specialized Activities Flow Completed

The marine corps has refu March 1 as a tentative date for closing the Marine Barracks as an active marine post, it was learned from an authorita ce source today.

Specialized medical activities for which the Klamath post was created have been completed, and continuation beyond March 1 will not be required, according to instructions which have gone out from marine corps headquarters to the department of the Pacific.

Disbandment of the post, disposition of property, and distribution of personnel will require a considerable period beyond the formal closing date, and it will probably be late in May or in June before marine personnel have moved entirely off the in-

stallation.

Today's disclosures are the first to indicate that the marine corps has finally decided it cannot make further use of the big Klamath establishment, which was set up originally as a reconditioning and training center for marines who contracted tropical diseases in the Pacific war theater. Col. Charles T. Brooks of the marine corps and Capt. Lowell T. Coggeshall, USNR, representing the navy bureau of medicine and surgery, are the head men at the barracks. Capt. Coggeshall helped determine the mission of the post before its establishment, and has been its ranking medical officer throughout its history. The post has won national fame in the field of tropical disease. Facilities Studied

There has been widespread local discussion of the possibil-ity of making the Marine Barracks a veterans' administration facility, especially since the veterans bureau announced some time ago it would establish a hos-pital at Klamath Falls, known that recently a represenof the administration tative ' spent two days on the post, study-(Continued on Page 2, Column 1)

The Pilot ordered the crew to bail out, but the parachute for the injured tail gunner could not be located. Kingsley strapped his chute on the gunner and remained on the B-17, to die in the crash. He was posthumously awarded the Medal of Honor.

١

During the late 1960s and early 1970s Kingsley Field was streamlined by moving base activities into the southern portion of the former NAS. Base construction in 1954 and in later years had taken place in the southern area of the NAS but the enlisted barracks and other structures at the northern edge were put to new uses. As the base role and its population declined these World War II structures were removed. By 1971 only 11 of the World War II buildings in the northern area remained. The Department of Defense placed Kingsley Field on its 1978 list of bases scheduled for closure and began to transfer its air defense and interceptor role to the Oregon Air National Guard. The Guard assumed the base in 1981 and established a new and smaller base turning over the northern area, a large part of the former NAS, to the city of Klamath Falls.

The former barracks and administration area of the NAS are now just outside the security fence of Kingsley Field on the north side of Dyess Avenue, to the south of the three rows of barracks. Four structures of the NAS survive in this area. There is the World War II gate house, one enlisted men's barracks (bldg 10), the dispensary (bldg 27), and the steel hangar from Dutch Harbor. The site of the World War II family housing on the northwest corner of the NAS is today a city baseball field. Where the family housing was in Klamath Falls is shopping mall.

Three World War II structures survive at the Lakeview NAAF which is today Lake County Airport. The motor pool, hangar and bachelor officers quarters are standing but the BOQ is vacant and in a poor state of repair.

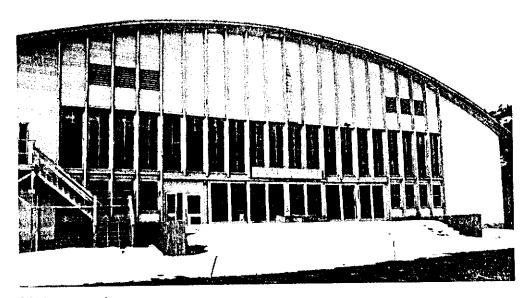
Klamath Falls, Marine Barracks

The convalescent center for Marines suffering from tropical diseases including filariasis and malaria was constructed in a mountain valley four miles northeast of town. The site was on a pioneer wagon trail that by 1943 had become a gravel county road. It was at 4,805 feet elevation, a beautiful locale with pine trees and clean healthful air.

Construction plans were developed to preserve as many of the trees as possible nestling the barracks and other buildings in the forest. Plans called for 80 buildings with a capacity of 5,000 men. There would be 28 barracks, each of two-story wood frame construction. They were sited on one side of the horseshoe shaped camp. At the top of the horseshoe, where the county road enters the camp from Klamath Falls, was an indoor Olympic size swimming pool, a gym and bowling alley and a guest house. To the rear of the gym between the tips of the horseshoe were the administration building, a theatre, PX and to their rear a parade ground. At the bottom of the horseshoe was a huge mess hall, shops and the heating plant. On a small bluff above the bottom of the camp was the officers club. A medical laboratory, called the 'Monkey House' by Marines, family dispensary, medical staff housing and a rifle range were built on the



Guest House at Marine Barracks. OIT photo.



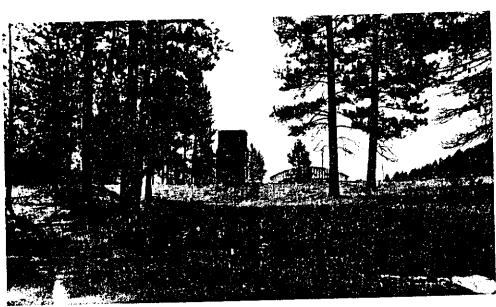
Marine gymnasium.

hillside on the north slope of the valley. Horse barns were built at the top of a second valley one-half mile on the county road beyond the heating plant.

While the Marine Barracks was under construction in February, 1944 Colonel Bernard Dubel was appointed Commanding Officer. Colonel Dubel arrived in Klamath Falls in March, establishing his headquarters in a downtown office.

Dubel, a 27 year veteran of the Corps had just finished a tour in Cuba. He had been the Commanding Officer of the 13th Defense Battalion. Dubel was a demanding commander whose weather beaten face and handle-bar mustache was not forgotten by Marines who were forced to regain their health through vigorous work and exercise at the Klamath Falls Marine Barracks.

The Marine Barracks opened in April, 1944. Commander Nowell T.



Vault and foundation of Marine administration building.

Coggeshall, USN, an authority on tropical diseases was the medical officer. Coggeshall formulated the treatment program, one emphasizing activity rather than bed rest. There were only 97 hospital beds at the Barracks and they were used as little as possible. Colonel Dubel was the person to translate this goal into every day reality. He had the men drilling, on work details, riding horses, engaged in sports and outdoor recreation. There was also plenty of food and social activities. Dr. Coggeshall believed that a physically fit body was the best medicine for tropical diseases. In addition to rebuilding their bodies the men had to overcome fears. "Within a short time Marines had the updated information on malaria, filariasis, elephantiasis. Some of the mystery of the dread diseases was dispelled, which helped bolster confidence. They were encouraged, too by

Mess hall foundation; heating plant in background.





Steps to sick bay of Marine dispensary.

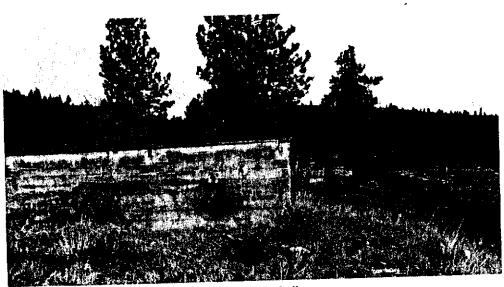
seeing others playing football, basketball, hunting, fishing, going to dances, enjoying normal pleasures. Even more, many wives of filariasis victims were giving birth to normal, healthy babies.

"There were health problems, but gradually most of the men noticed physical improvement. Their weight and, in some cases, their hair returned. Tolerance tests, disliked as they were, proved to the men that they were capable of taking on physical challenges. Most rehabilitated men were given a six month assignment at the post of his choice, most often near his home, before returning to a combat unit." (Klamath Falls Marine League, page 2)

The Marine Barracks was not a resort and the physical training was tough. Marines at the center were in casualty status without the brotherhood and sense of belonging that derives from assignment to a regular unit. It was a limbo status without responsibilities and rights. To be released and returned to a unit required a three month stay and the passing of a physical test, called a tolerance test. One was to complete a long hike with full pack in the mountains above the valley. Some Marines completed an alternative test and that was a rigorous work detail at Camp Govo, a forest service camp at Crescent Lake, Oregon where men cut fire paths, cleared the forest, built trails, and performed other hard work.

Colonel George O. Van Orden, a tested veteran of the Bougainville and Guam campaigns, relieved Colonel Dubel in November, 1944 and served at the Barracks until July, 1945. Colonel Van Orden had witnessed the debilitating impact of tropical diseases having served as the Commanding Officer of the First Battalion, Third Marines (Regiment), at Samoa and Bougainville.

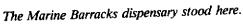
During the first year of operation 4,719 Marines were received and 2,942 were returned to full duty and another 708 were ready to go when they had orders. The original plans for the Marine Barracks anticipated its use for two years after the conclusion of the war but by May, 1945 the need had nearly

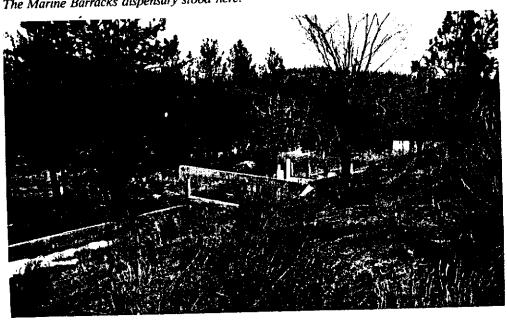


Barracks footing on South Road above the mess hall.

disappeared. The center had demonstrated effective treatment strategies and the shift in the locale of the War to the Central Pacific was producing fewer victims of tropical diseases. The Navy Bureau of Medicine and Surgery concluded that the Barracks could be closed in 1946.

Colonel Charles T. Brooks relieved Van Order in July, 1945 and stayed on to close the facility. When Brooks assumed command the center's population was 1,600 men and it was down to 1,200 on January 1, 1946. The facility was scheduled to close on March 1. Marine work parties secured the buildings and guarded the camp while an attempt was made to locate a new tenant. The State of Oregon obtained the facility and opened there in May, 1947 the Oregon





ORDNANCE AND EXPLOSIVES
ARCHIVES SEARCH REPORT
FOR
THE FORMER
KINGSLEY FIRING RANGE ANNEX
KLAMATH FALLS, OREGON
PROJECT NUMBER F100R056901

APPENDIX I

INTERVIEWS

APPENDIX I

INTERVIEWS

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- I-3 Conversation Record, Interview with Sgt. Flocchini
- I-4 Conversation Record, Interview with CMSGT John Wohlwend
- I-5 Conversation Record, Interview with
 Mr. Kenny Hertz

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A VISII	CONFERENCE				
			INCOMING		
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NAME OF PERSON CONTACT WITH	ORGANIZATION		TELEPHONE NO.		
Africa Africa and Patrick A			503-882-3260		
Mrs. Maxine Wirth					
SUBJECT Kingsley Firing Range Ann	ex				
SUMMARY		····			
Mrs. Maxine Wirth is the cur	crent land owne	r of	Tract 600 of		
the subject area. She state					
the land prior to the govern		_	_		
over for the former Marine H			e was not		
happy about the past actions	-				
extremely helpful to the SI					
OE. Mrs. Wirth maintains a					
made to the land in question	n. She made th	e ke	y available to		
the team so access could be	made at any ti	m∈.	During the		
interview she stated many to	interview she stated many times she had never seen or heard				
of any OE on the property.					
resident of the area and sta					
bangs or loud explosions.					
arms fire. Mrs. Wirth said					
controlled the range they ha					
		u ne	i prior co		
using the range which was in	irequent.				
ACTION REQUIRED					
ACTION TAKEN		·			
NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION		TELEPHONE NUMBER		

CENCR-ED-DO

TITLE Safety and

Occupational Health Spec

James L. Aschnewitz

SIGNATURE

lan 2

309-794-6035

DATE

8/10/95

CONVERSATION RECORD	TIME	DATE
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X VISIT	CONFERENCE	TELEPHONE
14544	CONFERENCE	INCOMING
		OUTGOING
NAME OF PERSON CONTACT WITH		TELEPHONE NO.
MEM OF PERSON CONTACT WITH		503-883-1386
Mr. Bruce Durant		303-883-1386
SUBJECT Kingsley Firing Range Ann	ex	
SUMMARY		
=	irrog on the len	d dimently
Mr. Bruce Durant owns and li		
adjacent to the Kingsley Fir		
stated he was a real estate		
his job he had been all arou	and the area in	question. Mr.
Durant along with several of		
other end of the property fi		
offered access to the SI tea		
During the visit he left the		
available. As with Mrs. Wir	cth, Mr. Durant	was extremely
helpful to the SI team. He	stated he had	never seen any
questionable items on the ra	ange and especi	ally anything that
looked like ordnance. He st		
anything was ever found. I		
found anything that resemble		
touch it, but mark it and ca		
todail 10, but main it and co	TIL CHE LOCAL D	merrir department.
ACTION REQUIRED		-41.
ACTION TAKEN		
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NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION	TELEPHONE NUMBER
James L. Aschnewitz	CENCR-ED-DO	309-794-6035
a La din	TITLE Safety and Occupational Health	DATE 9/03/95
7	•	- 3/03/33

CONVERSATION RECORD	TIME	DAT	'E	
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NAME OF PERSON CONTACT WITH	ORGANIZATION		TEI	EPHONE NO.
John Wohlwend			618	3-948-4811
SUBJECT Kingsley Firing Range An	nex			
Chief Master Sergeant John Wan interview. Mr. Wohlwend National Guard since 1971. Kingsley AFB, Oregon. He state range since they took the range since they took the Force. Prior to take over hused for some disposal work training. He gave us several years ago he was also a deputhe said during that time the range of any type. He state several times and had never	has been with All his time he tated the guard he base over from the thought the and also for mal references to the were no included he had been	the as he come transport carks or carks on the come to	Orectored new land land land land land land land land	egon Air n at ever used active Air had been nship . Until ten h County. on the
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NAME OF PERSON DOCUMENTING CONVERSATION James L. Aschnewitz	organization CENCR-ED-DO			ephone number 9-794-6035
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NAME OF PERSON CONTACT WITH				Lephone
Sergeant Flocchini	Klamath Falls Police Departmen	_		mber: 3-883-5336
Sergeant Flocchini	Forice Departmen	L	30.	5-003-5330
SUBJECT Kingsley Firing Range			•	
SUMMARY				
A telephone interview was co	onducted with M	ír.	Flo	cchini. Mr.
Flocchini stated he had been				
over 35 years. He has been				
National Guard. He stated				
He further stated there were				
Police Department. He also				
knowledge no other agencies				
ordnance incidents.	nad been invoi	. v c a	111	arry
ordinance incluencs.				
ACTION REQUIRED				
ACTION TAKEN				
NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION		TEL	EPHONE NUMBER
James L. Aschnewitz	CENCR-ED-DO		30	9-794-6035
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			x	OUTGOING		
NAME OF PERSON CONTACT WITH	ORGANIZATION		Te.	lephone Number		
Kenny Hertz			50:	3-882-2421		
SUBJECT Kingsley Firing Range An	inex					
visit due to medical problem on 18 September 1995. Mr. I information on the Oregon And Kingsley Firing Range Annex Army National Guard for over guard did use the range occamajority of the time it was training. He also confirmed occasions fire 3.5 inch rock firing point and the impact there was never any high expeads fired on the range	Mr. Kenny Hertz was not available at the time of the site visit due to medical problems. He was eventually contacted on 18 September 1995. Mr. Hertz provided a wealth of information on the Oregon Army National Guard use of Kingsley Firing Range Annex. Mr. Hertz was with the Oregon Army National Guard for over 30 years. He confirmed the guard did use the range occasionally. He stated the majority of the time it was used only for small arms training. He also confirmed that the guard did on several occasions fire 3.5 inch rockets. He further confirmed the firing point and the impact area on the range. He stated there was never any high explosive or any other "live" warheads fired on the range. This further confirms Mrs. Wirths comments that she had never heard any loud explosions					
ACTION PROUIDED						
ACTION REQUIRED						
ACTION TAKEN						
NAME OF PERSON DOCUMENTING CONVERSATION	ORGANIZATION		1	EPHONE NUMBER		
James L. Aschnewitz	CENCR-ED-DO TITLE Safety and			9-974-6035		
SIGNATURE Ja Z aschy	TITLE Safety and OCR. Health Spec. DATE 09/18/1995					
CONVERSATION RECORD	TIME	DA'	ΓE			

ORDNANCE AND EXPLOSIVES ARCHIVES SEARCH REPORT FOR THE FORMER KINGSLEY FIRING RANGE ANNEX KLAMATH FALLS, OREGON PROJECT NUMBER F100R056901

APPENDIX J

PRESENT SITE PHOTOGRAPHS

APPENDIX J

PRESENT SITE PHOTOGRAPHS

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- J-2 Photograph of burn pit, base plate from possible 100 lb practice bomb, note possible shape charge hole (plate 4).
- J-4 Photograph showing area overlooking burn pit (plate 4).
- J-5 Photograph of OE in burn pit, ejection cartridges, small arms (plate 4).
- J-6 Photograph of OE in burn pit, mouse trap devices (M-2 booby trap devices) (plate 4).
- J-7 Photograph of 3.5 inch rocket nozzle (plate 4).
- J-8 Photograph of 3.5 inch rocket tail ring (plate 4).
- J-9 Photograph of rocket nose cone (plate 4).
- J-10 Photograph of rocket body (plate 4).
- J-11 Photograph of rocket body with motor (plate 4)
- J-12 Photograph of firing range facing firing positions (plate 4).
- J-13 Photograph of firing range target berm (plate 4).



J-1 Perimeter Fence Signs



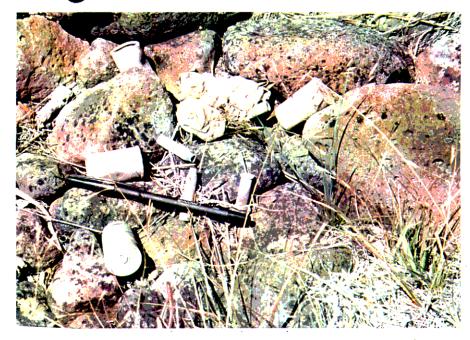
Burn/Detonation Pit Berm



Photo of burn pit, base plate from possible 100 lb pratice bomb, note possible shape charge hole (plate 4).



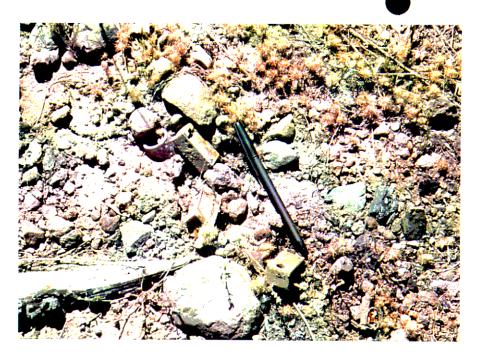
J-4 Burn/Detonation Pit Area Note Homes In Background



J-5 Photo of OE in burn pit, ejection cartridges, small arms (plate 4).



J-7 3.5" Rocket Nozzle



J-6 Photo of OE in burn pit, mouse trap devices (M-2 booby trap devices) (plate 4).



J-8 3.5" Rocket Tail Ring



J-9 3.5" Rocket Nose Cone



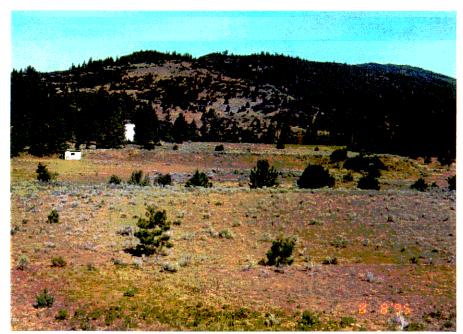
J-10 3.5" Rocket Body Empty



J-11 3.5" Rocket Body W/Motor



J-12 Firing Range Target Berm



J-13 Firing Range looking Northwest Note 3 raised firing positions

APPENDIX K

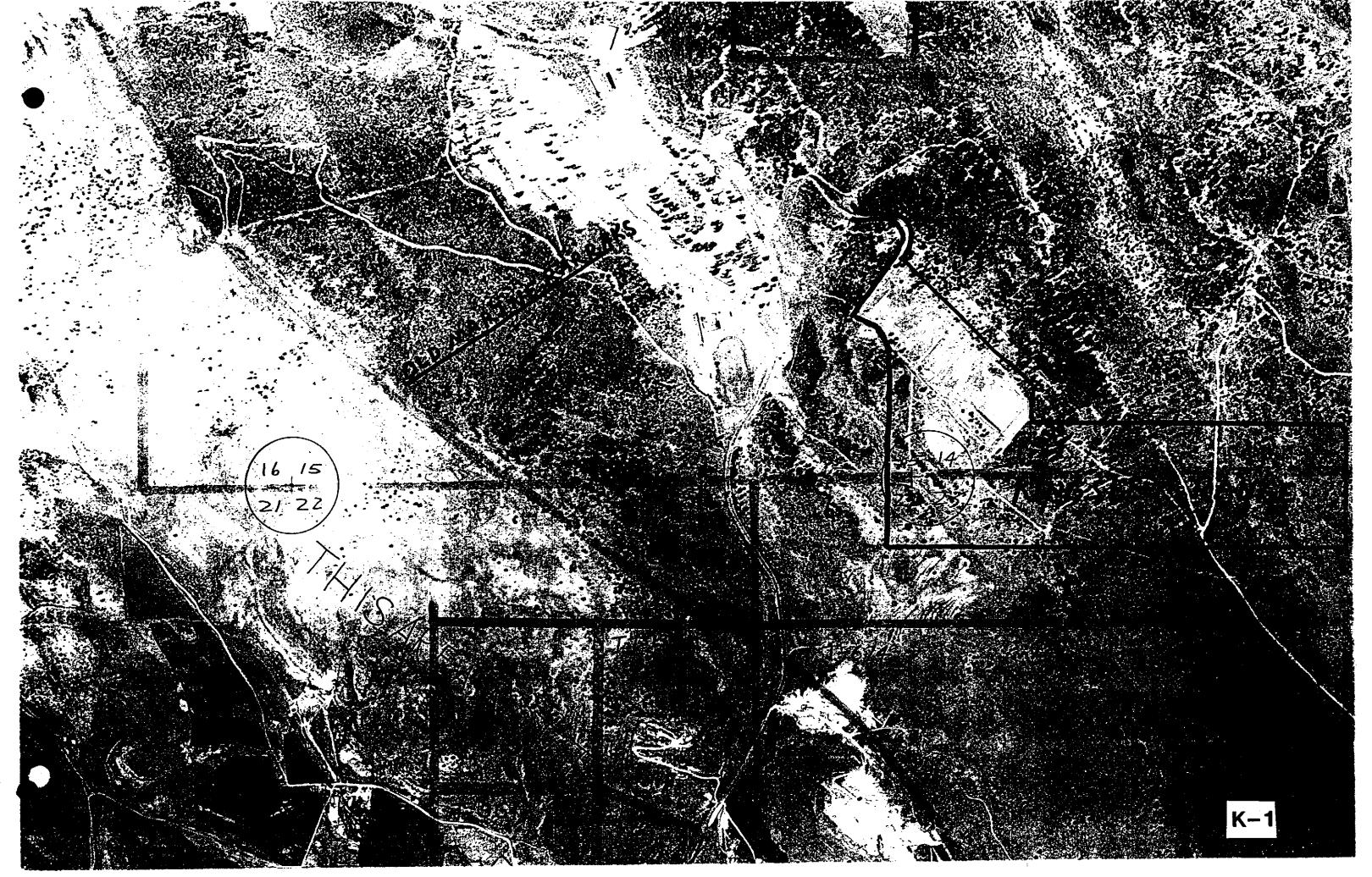
HISTORICAL PHOTOGRAPHS

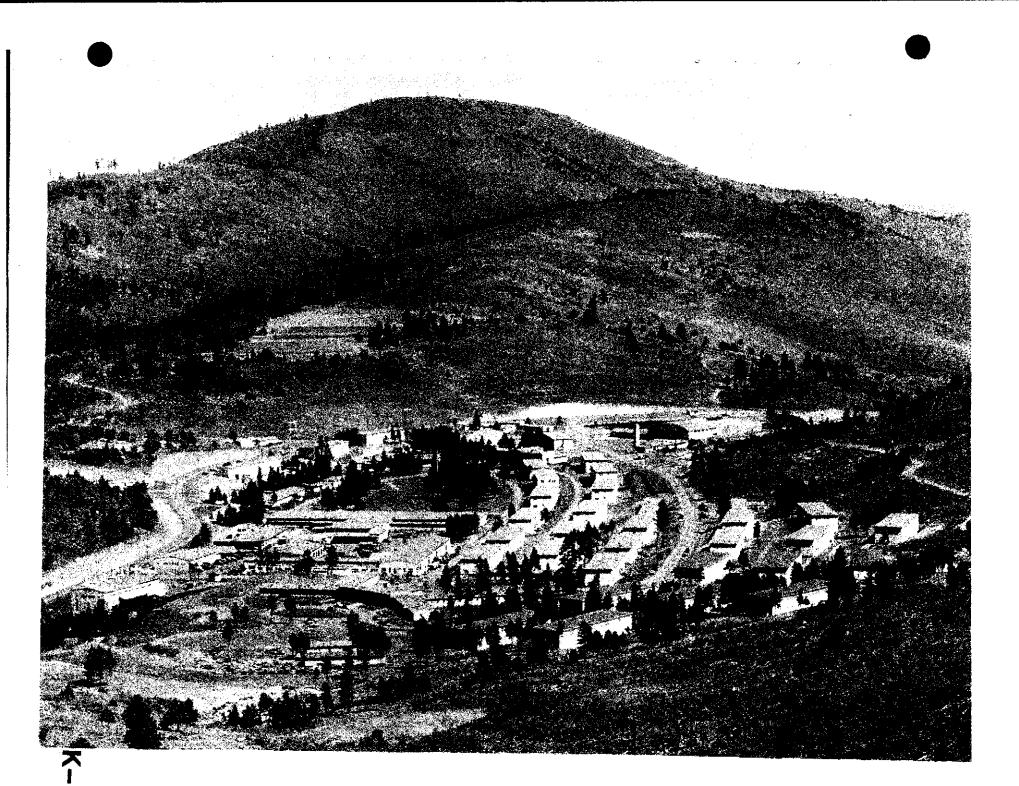
Appendix K

HISTORICAL REFERENCES/PHOTOGRAPHS

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- K-1 Aerial Photograph of Firing Range, 1970
- K-2 Historical Photograph of Former Marine Barracks, date Unknown, Source, National Archives





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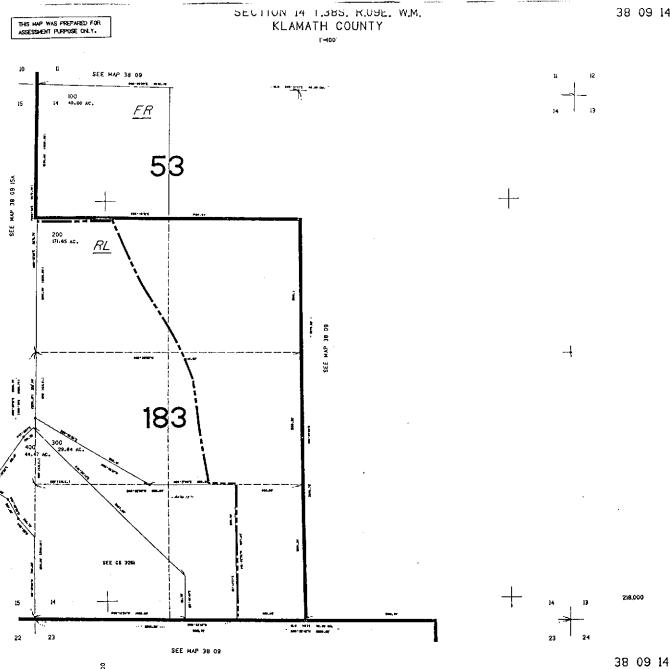
REFERENCE MAPS/DRAWINGS

APPENDIX L

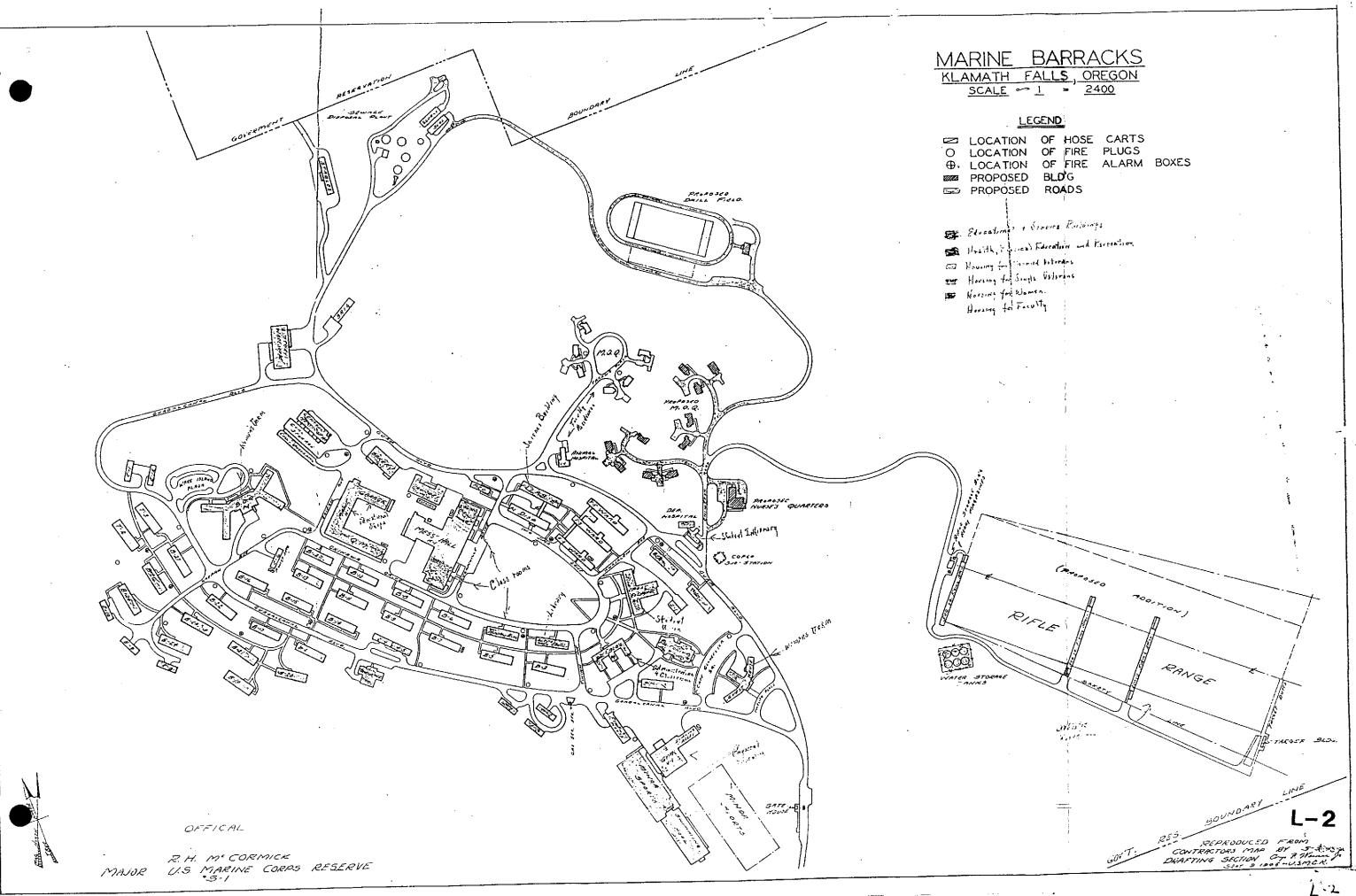
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- L-2 Contractors Map, Marine Barracks, 1946, (B-25)
- L-3 Corps of Engineer Map, Kingsley Firing Range, 1 June 1965, (B-23)



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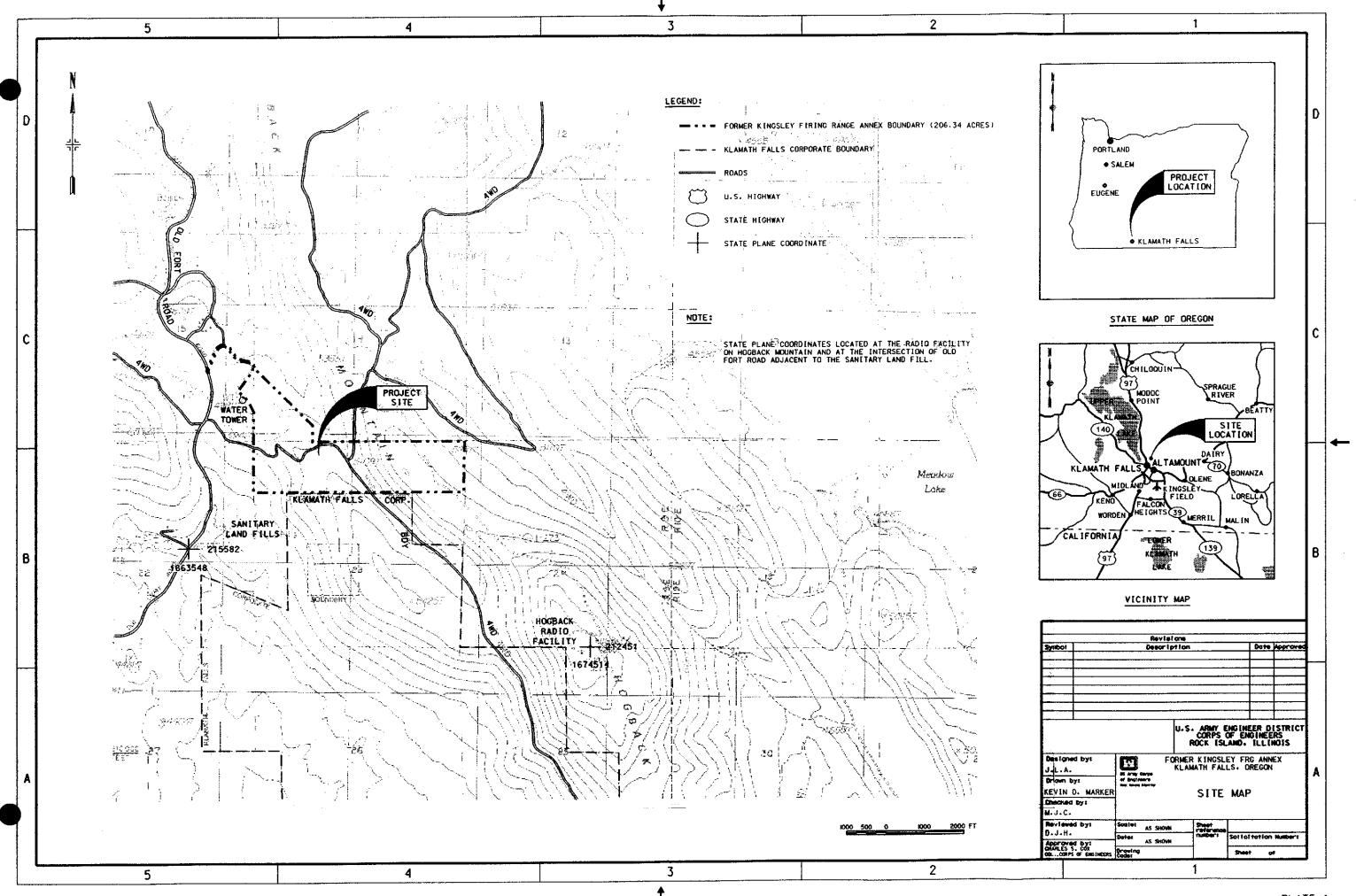
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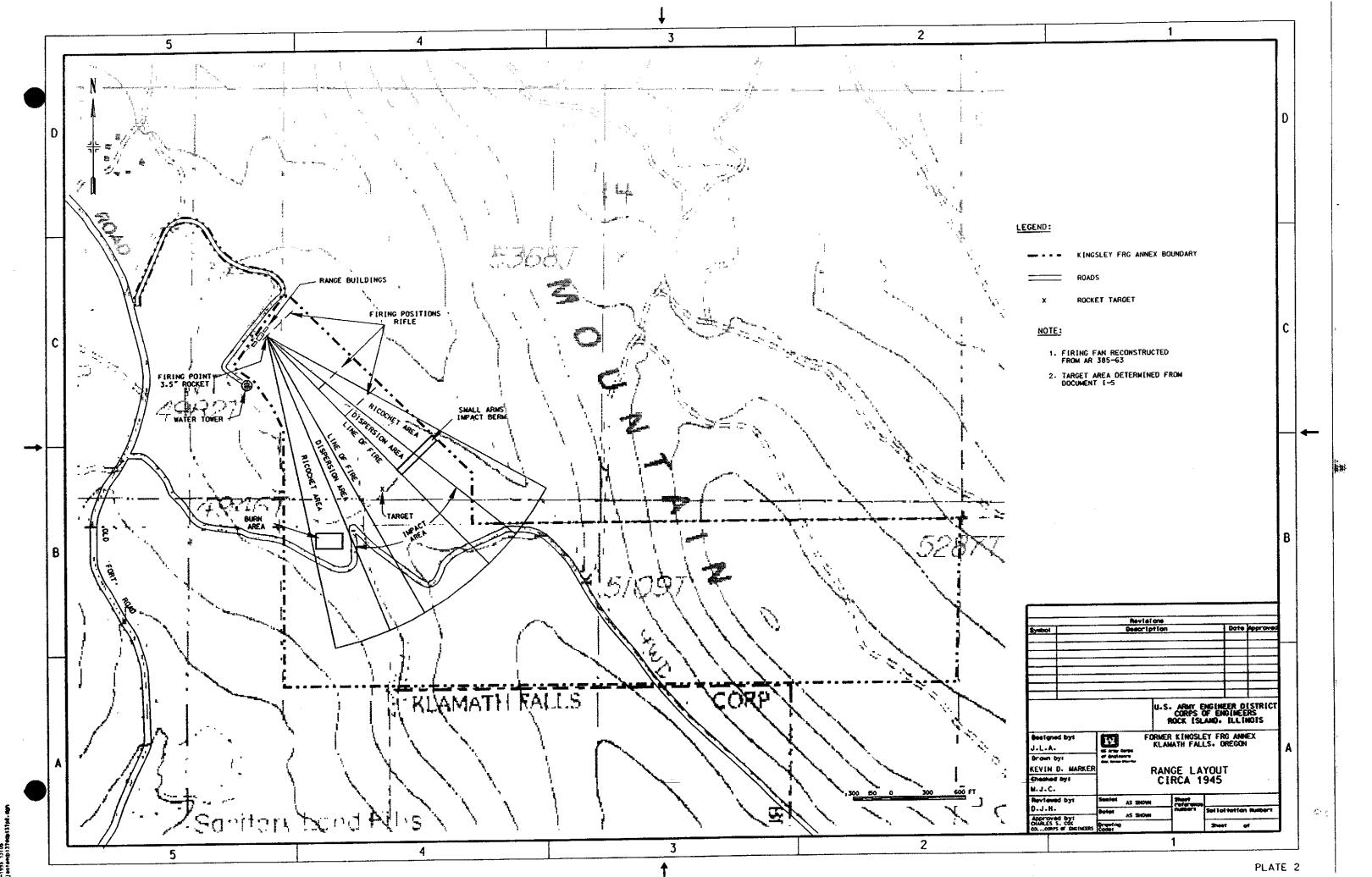
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REPORT PLATES





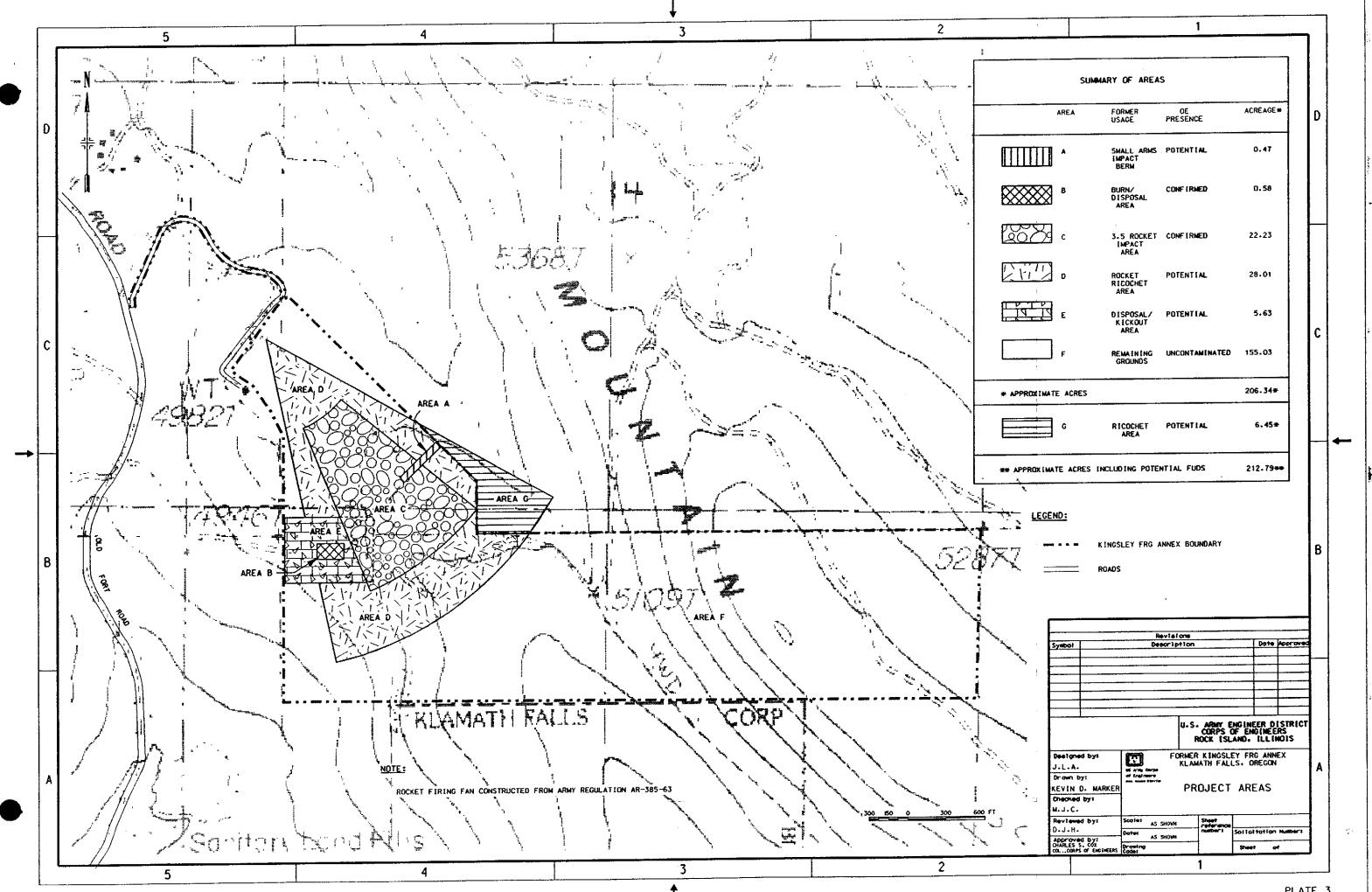


PLATE 3

